

**Water Resources Planning Department**

**Water Supply / Demand Analysis and Projections**  
**for**  
**Oroville District**

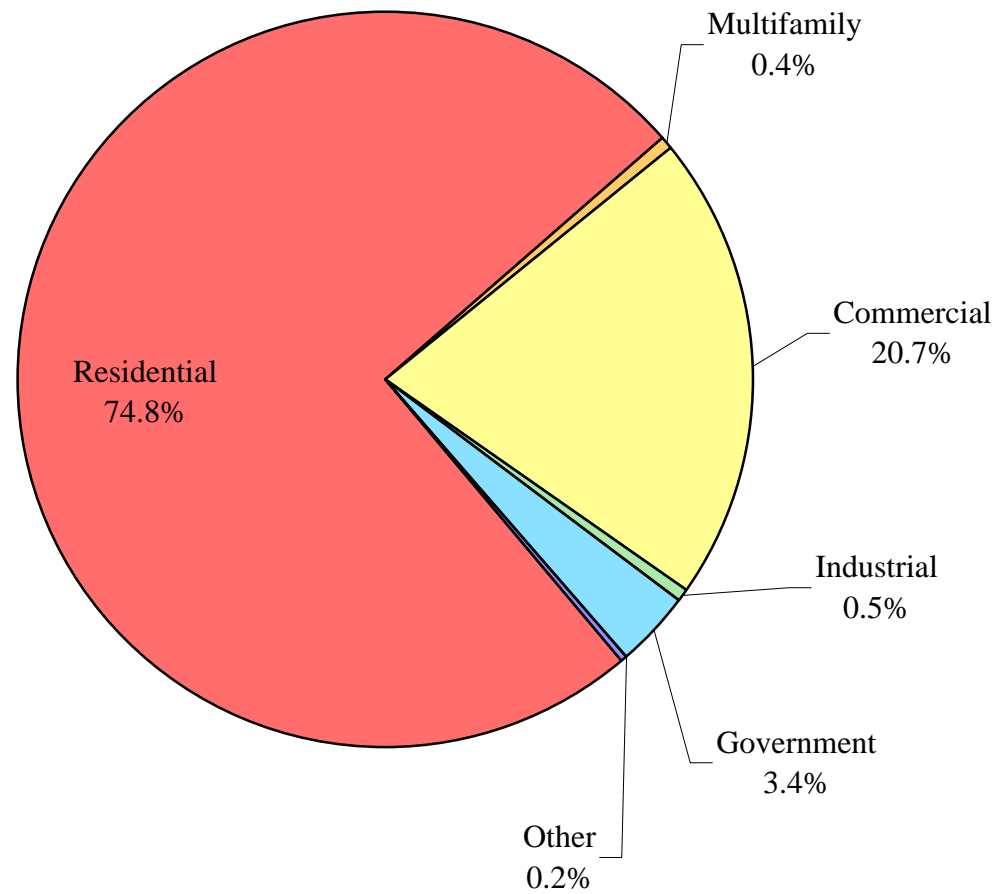
**2010**



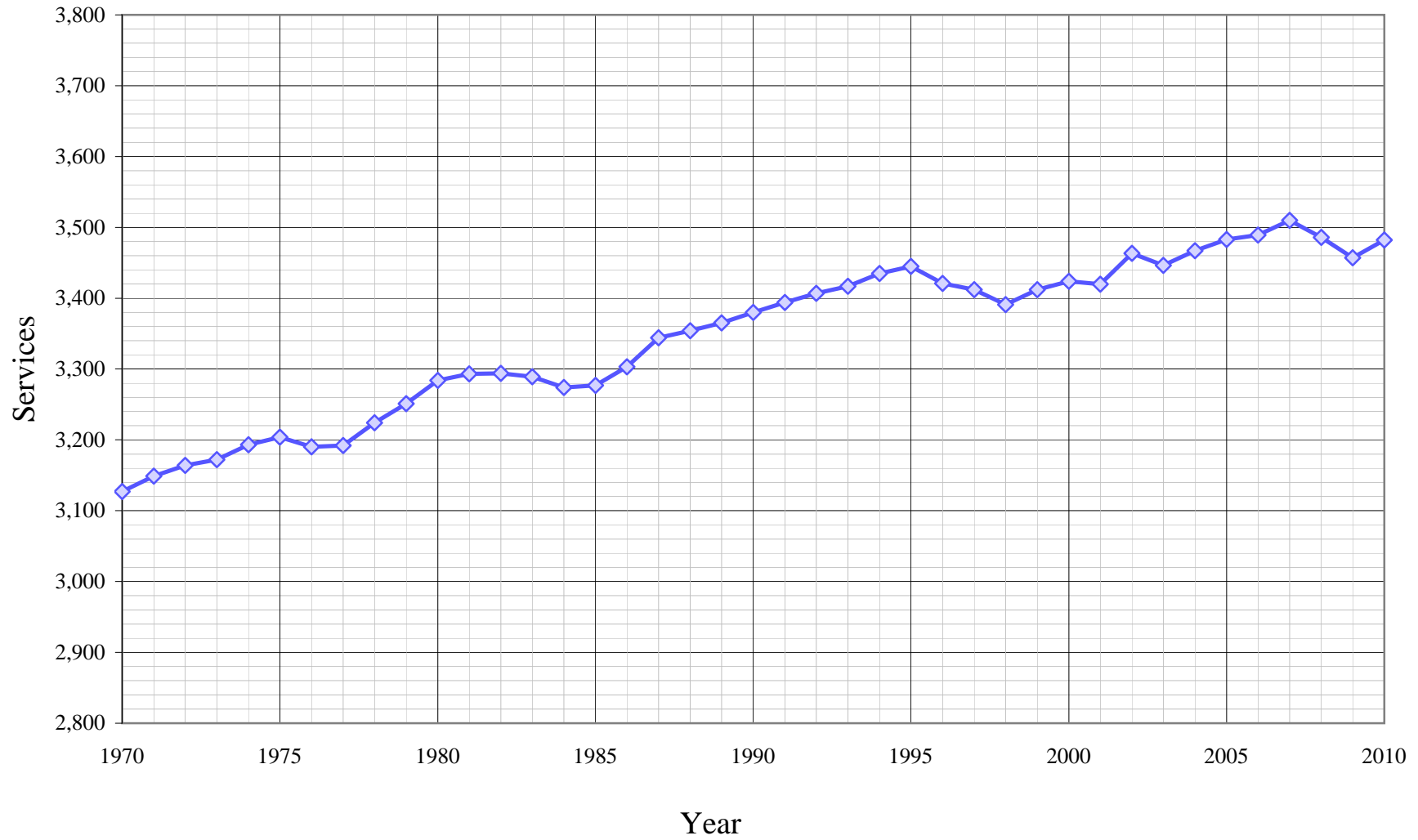
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# Oroville District Distribution of Services (2010)



# Oroville District Historical Services



**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**  
**Service Growth Percentage**

Worksheet 2

| Year        | Single Family Residential |         |           | Multifamily |        | Commercial | Industrial | Government | Other    | Total  |
|-------------|---------------------------|---------|-----------|-------------|--------|------------|------------|------------|----------|--------|
|             | Total                     | Metered | Flat Rate | Multifamily | Units  |            |            |            |          |        |
| 1981        | -0.16%                    | 2.41%   | -3.20%    | 0.00%       | 23.00% | 1.36%      | -10.00%    | 5.13%      | 0.00%    | 0.27%  |
| 1982        | 0.20%                     | 6.85%   | -8.14%    | 8.33%       | 5.67%  | -0.45%     | 0.00%      | -2.44%     | 0.00%    | 0.03%  |
| 1983        | -0.20%                    | 3.40%   | -5.45%    | 0.00%       | 12.06% | 0.00%      | 0.00%      | 1.25%      | -100.00% | -0.15% |
| 1984        | -0.91%                    | -0.90%  | -0.93%    | 0.00%       | 0.00%  | 1.35%      | 11.11%     | -3.70%     | 0.00%    | -0.46% |
| 1985        | 0.20%                     | 1.82%   | -2.39%    | 0.00%       | -0.24% | 0.44%      | 0.00%      | -6.41%     | 0.00%    | 0.09%  |
| 1986        | 0.96%                     | 1.86%   | -0.53%    | 0.00%       | 0.24%  | 0.00%      | 10.00%     | 2.74%      | -100.00% | 0.79%  |
| 1987        | 0.87%                     | 1.57%   | -0.32%    | 0.00%       | 0.00%  | 2.36%      | 0.00%      | 4.00%      | 0.00%    | 1.24%  |
| 1988        | 0.12%                     | -1.79%  | 3.44%     | 0.00%       | 0.00%  | 0.58%      | 0.00%      | 3.85%      | 0.00%    | 0.30%  |
| 1989        | 0.00%                     | -0.31%  | 0.52%     | 0.00%       | 0.00%  | 0.72%      | 27.27%     | 3.70%      | 0.00%    | 0.33%  |
| 1990        | 0.04%                     | 0.32%   | -0.41%    | 0.00%       | 0.00%  | 1.42%      | 14.29%     | 2.38%      | 0.00%    | 0.45%  |
| 1991        | 0.55%                     | 2.46%   | -2.59%    | 0.00%       | 0.00%  | -0.28%     | 0.00%      | 2.33%      | 0.00%    | 0.41%  |
| 1992        | 0.27%                     | 7.07%   | -11.50%   | 0.00%       | 0.24%  | 0.84%      | 6.25%      | -1.14%     | 0.00%    | 0.38%  |
| 1993        | -0.12%                    | 6.72%   | -14.44%   | 0.00%       | -0.24% | 1.26%      | 0.00%      | 4.60%      | 0.00%    | 0.29%  |
| 1994        | 0.16%                     | 3.34%   | -8.16%    | 7.69%       | 22.01% | 1.24%      | 0.00%      | 4.40%      | 0.00%    | 0.53%  |
| 1995        | 0.08%                     | 3.18%   | -9.04%    | 0.00%       | 12.94% | 1.36%      | 0.00%      | -2.11%     | 0.00%    | 0.29%  |
| 1996        | -0.78%                    | 1.41%   | -8.08%    | 0.00%       | 0.00%  | -2.01%     | 0.00%      | 11.83%     | 0.00%    | -0.70% |
| 1997        | 0.94%                     | 2.99%   | -6.59%    | 0.00%       | 0.35%  | -6.30%     | -11.76%    | 14.42%     | 0.00%    | -0.26% |
| 1998        | -0.16%                    | 1.30%   | -6.08%    | 0.00%       | 0.35%  | -1.61%     | 0.00%      | -5.04%     | 0.00%    | -0.62% |
| 1999        | 0.62%                     | 2.67%   | -8.35%    | 0.00%       | -0.34% | 0.45%      | 0.00%      | 1.77%      | 0.00%    | 0.62%  |
| 2000        | -0.14%                    | 1.25%   | -7.00%    | 0.00%       | 0.78%  | 2.13%      | 0.00%      | 0.87%      | 0.00%    | 0.34%  |
| 2001        | 0.03%                     | 0.92%   | -4.69%    | 0.00%       | -0.92% | -1.06%     | 0.00%      | 2.23%      | 0.00%    | -0.11% |
| 2002        | 1.44%                     | 1.09%   | 3.38%     | 0.00%       | -0.43% | 1.11%      | 0.00%      | -0.91%     | 0.00%    | 1.28%  |
| 2003        | -0.58%                    | 0.63%   | -7.25%    | 0.00%       | 0.58%  | -0.02%     | 0.00%      | -1.49%     | 0.00%    | -0.49% |
| 2004        | 0.69%                     | 1.65%   | -5.12%    | 0.00%       | 3.98%  | -0.22%     | 6.67%      | 1.08%      | 0.00%    | 0.60%  |
| 2005        | 0.23%                     | 1.19%   | -5.93%    | 0.00%       | 3.16%  | 0.73%      | 0.00%      | 2.56%      | 0.00%    | 0.46%  |
| 2006        | 0.15%                     | 0.74%   | -3.90%    | 0.00%       | -4.03% | -0.29%     | 0.00%      | 2.50%      | 25.00%   | 0.17%  |
| 2007        | 0.42%                     | 0.99%   | -3.75%    | 0.00%       | -3.19% | 1.45%      | 0.00%      | -2.44%     | 60.00%   | 0.60%  |
| 2008        | -1.55%                    | 0.09%   | -13.96%   | 0.00%       | 0.00%  | 1.99%      | 0.00%      | 2.50%      | 0.00%    | -0.68% |
| 2009        | -1.11%                    | 0.60%   | -16.23%   | 0.00%       | 0.00%  | 0.42%      | 0.00%      | -0.81%     | -25.00%  | -0.83% |
| 2010        | 0.93%                     | 1.99%   | -10.36%   | 7.14%       |        | 0.28%      | 0.00%      | -2.46%     | 0.00%    | 0.72%  |
| 5 Yr. Avg.  | -0.37%                    | 0.72%   | -8.75%    | 0.00%       | -0.81% | 0.86%      | 0.00%      | 0.86%      | 12.00%   | -0.06% |
| 10 Yr. Avg. | -0.04%                    | 0.92%   | -6.45%    | 0.00%       | -0.01% | 0.62%      | 0.67%      | 0.61%      | 6.00%    | 0.13%  |
| 15 Yr. Avg. | 0.02%                     | 1.38%   | -6.84%    | 0.00%       | 0.88%  | -0.12%     | -0.34%     | 1.80%      | 4.00%    | 0.04%  |
| 20 Yr. Avg. | 0.06%                     | 2.03%   | -6.98%    | 0.38%       | 1.76%  | 0.13%      | 0.77%      | 1.98%      | 3.00%    | 0.14%  |

Five Year Average includes 2005-2009.

Ten Year Average includes 2000 to 2009

Fifteen Year Average includes 1995 to 2009

Twenty Year Average includes 1990 to 2009

**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**  
**Annual Services**

Worksheet 1

| Year       | Single Family Residential |         |           | Multifamily |       | Commercial | Industrial | Government | Other | Total |
|------------|---------------------------|---------|-----------|-------------|-------|------------|------------|------------|-------|-------|
|            | Total                     | Metered | Flat Rate | Multifamily | Units |            |            |            |       |       |
| 1980       | 2,524                     | 1,369   | 1,155     | 12          | 287   | 660        | 10         | 78         | 0     | 3,284 |
| 1981       | 2,520                     | 1,402   | 1,118     | 12          | 353   | 669        | 9          | 82         | 1     | 3,293 |
| 1982       | 2,525                     | 1,498   | 1,027     | 13          | 373   | 666        | 9          | 80         | 1     | 3,294 |
| 1983       | 2,520                     | 1,549   | 971       | 13          | 418   | 666        | 9          | 81         | 0     | 3,289 |
| 1984       | 2,497                     | 1,535   | 962       | 13          | 418   | 675        | 10         | 78         | 1     | 3,274 |
| 1985       | 2,502                     | 1,563   | 939       | 13          | 417   | 678        | 10         | 73         | 1     | 3,277 |
| 1986       | 2,526                     | 1,592   | 934       | 13          | 418   | 678        | 11         | 75         | 0     | 3,303 |
| 1987       | 2,548                     | 1,617   | 931       | 13          | 418   | 694        | 11         | 78         | 0     | 3,344 |
| 1988       | 2,551                     | 1,588   | 963       | 13          | 418   | 698        | 11         | 81         | 0     | 3,354 |
| 1989       | 2,551                     | 1,583   | 968       | 13          | 418   | 703        | 14         | 84         | 0     | 3,365 |
| 1990       | 2,552                     | 1,588   | 964       | 13          | 418   | 713        | 16         | 86         | 0     | 3,380 |
| 1991       | 2,566                     | 1,627   | 939       | 13          | 418   | 711        | 16         | 88         | 0     | 3,394 |
| 1992       | 2,573                     | 1,742   | 831       | 13          | 419   | 717        | 17         | 87         | 0     | 3,407 |
| 1993       | 2,570                     | 1,859   | 711       | 13          | 418   | 726        | 17         | 91         | 0     | 3,417 |
| 1994       | 2,574                     | 1,921   | 653       | 14          | 510   | 735        | 17         | 95         | 0     | 3,435 |
| 1995       | 2,576                     | 1,982   | 594       | 14          | 576   | 745        | 17         | 93         | 0     | 3,445 |
| 1996       | 2,556                     | 2,010   | 546       | 14          | 576   | 730        | 17         | 104        | 0     | 3,421 |
| 1997       | 2,580                     | 2,070   | 510       | 14          | 578   | 684        | 15         | 119        | 0     | 3,412 |
| 1998       | 2,576                     | 2,097   | 479       | 14          | 580   | 673        | 15         | 113        | 0     | 3,391 |
| 1999       | 2,592                     | 2,153   | 439       | 14          | 578   | 676        | 15         | 115        | 0     | 3,412 |
| 2000       | 2,588                     | 2,180   | 408       | 14          | 583   | 690        | 15         | 116        | 0     | 3,424 |
| 2001       | 2,589                     | 2,200   | 389       | 14          | 577   | 683        | 15         | 119        | 0     | 3,420 |
| 2002       | 2,626                     | 2,224   | 402       | 14          | 575   | 691        | 15         | 118        | 0     | 3,463 |
| 2003       | 2,611                     | 2,238   | 373       | 14          | 578   | 691        | 15         | 116        | 0     | 3,446 |
| 2004       | 2,629                     | 2,275   | 354       | 14          | 601   | 689        | 16         | 117        | 2     | 3,467 |
| 2005       | 2,635                     | 2,302   | 333       | 14          | 620   | 694        | 16         | 120        | 4     | 3,483 |
| 2006       | 2,639                     | 2,319   | 320       | 14          | 595   | 692        | 16         | 123        | 5     | 3,489 |
| 2007       | 2,650                     | 2,342   | 308       | 14          | 576   | 702        | 16         | 120        | 8     | 3,510 |
| 2008       | 2,609                     | 2,344   | 265       | 14          | 576   | 716        | 16         | 123        | 8     | 3,486 |
| 2009       | 2,580                     | 2,358   | 222       | 14          | 576   | 719        | 16         | 122        | 6     | 3,457 |
| 2010       | 2,604                     | 2,405   | 199       | 15          | 546   | 721        | 16         | 119        | 7     | 3,482 |
| 5 Yr Avg.  | 2,623                     | 2,333   | 290       | 14          | 589   | 705        | 16         | 122        | 6     | 3,485 |
| 10 Yr Avg. | 2,616                     | 2,278   | 337       | 14          | 586   | 697        | 16         | 119        | 3     | 3,465 |
| 20 Yr Avg. | 2,594                     | 2,092   | 502       | 14          | 546   | 704        | 16         | 109        | 2     | 3,438 |

Five year average = 2005 through 2009.

Ten year average = 2000 through 2009.

Twenty year average = 1990 through 2009.

**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**  
**Sales (ccf)**

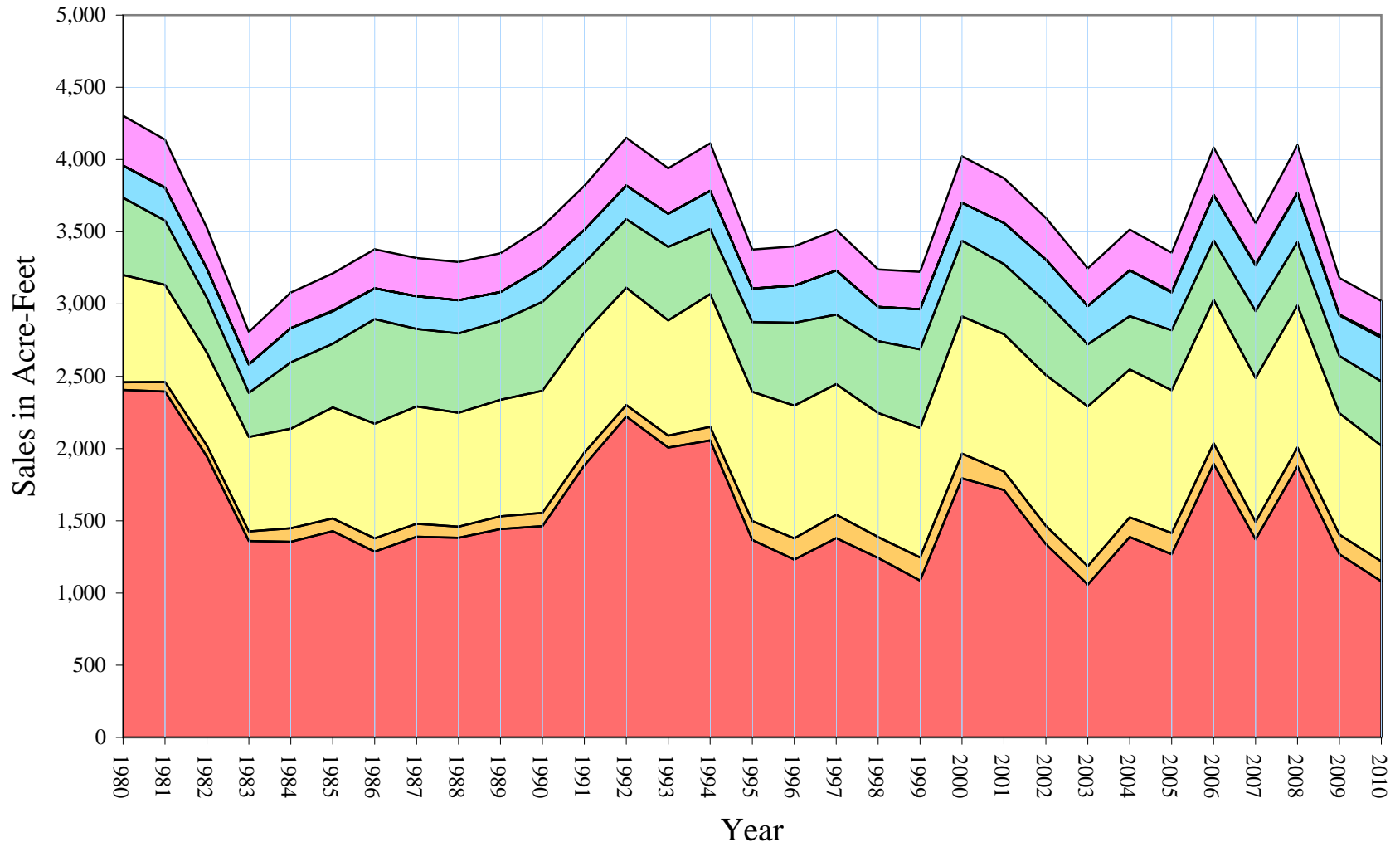
Worksheet 3

| Year        | Single Family Residential |         |           | Multifamily | Commercial | Industrial | Government | Other | Unaccounted<br>Water | Total(ccf)<br>Sales | Total(ccf)<br>Production | Total(kgal)<br>Production |
|-------------|---------------------------|---------|-----------|-------------|------------|------------|------------|-------|----------------------|---------------------|--------------------------|---------------------------|
|             | Total                     | Metered | Flat Rate |             |            |            |            |       |                      |                     |                          |                           |
| 1980        | 1,047,517                 | 218,116 | 829,401   | 23,156      | 323,655    | 232,925    | 96,832     | 250   | 149,942              | 1,724,335           | 1,874,277                | 1,402,057                 |
| 1981        | 1,042,650                 | 224,240 | 818,410   | 28,899      | 293,232    | 193,424    | 98,808     | 1,455 | 144,215              | 1,658,468           | 1,802,682                | 1,348,500                 |
| 1982        | 846,969                   | 224,003 | 622,966   | 32,520      | 280,399    | 165,129    | 87,373     | 894   | 122,894              | 1,413,284           | 1,536,178                | 1,149,141                 |
| 1983        | 592,116                   | 234,150 | 357,966   | 28,666      | 285,637    | 132,510    | 85,957     | 215   | 97,835               | 1,125,101           | 1,222,936                | 914,820                   |
| 1984        | 590,014                   | 254,127 | 335,887   | 40,912      | 300,362    | 200,017    | 102,839    | 7     | 107,317              | 1,234,151           | 1,341,468                | 1,003,488                 |
| 1985        | 621,933                   | 260,211 | 361,722   | 38,571      | 334,105    | 192,538    | 97,546     | 2,767 | 111,953              | 1,287,460           | 1,399,413                | 1,046,834                 |
| 1986        | 560,105                   | 252,374 | 307,731   | 39,901      | 346,069    | 315,276    | 92,672     | 0     | 117,741              | 1,354,023           | 1,471,764                | 1,100,956                 |
| 1987        | 604,823                   | 302,689 | 302,134   | 39,494      | 353,563    | 233,766    | 98,422     | 0     | 115,658              | 1,330,068           | 1,445,726                | 1,081,478                 |
| 1988        | 601,901                   | 269,728 | 332,173   | 33,628      | 343,033    | 239,369    | 100,635    | 0     | 114,658              | 1,318,566           | 1,433,224                | 1,072,126                 |
| 1989        | 628,631                   | 252,842 | 375,789   | 38,502      | 351,187    | 237,515    | 87,542     | 0     | 116,815              | 1,343,377           | 1,460,193                | 1,092,300                 |
| 1990        | 637,399                   | 268,295 | 369,104   | 39,964      | 368,181    | 267,713    | 104,109    | 0     | 123,249              | 1,417,366           | 1,540,615                | 1,152,460                 |
| 1991        | 820,749                   | 258,908 | 561,841   | 38,208      | 361,486    | 210,746    | 99,115     | 0     | 133,070              | 1,530,304           | 1,663,374                | 1,244,290                 |
| 1992        | 968,073                   | 291,245 | 676,828   | 33,813      | 354,302    | 206,087    | 101,630    | 0     | 144,687              | 1,663,905           | 1,808,592                | 1,352,921                 |
| 1993        | 874,135                   | 296,561 | 577,574   | 36,190      | 347,267    | 221,544    | 99,931     | 0     | 137,310              | 1,579,067           | 1,716,377                | 1,283,939                 |
| 1994        | 895,790                   | 307,037 | 588,753   | 40,348      | 400,832    | 195,742    | 115,644    | 0     | 143,335              | 1,648,356           | 1,791,691                | 1,340,278                 |
| 1995        | 595,832                   | 345,290 | 250,542   | 56,425      | 389,816    | 210,369    | 101,364    | 0     | 117,722              | 1,353,806           | 1,471,529                | 1,100,780                 |
| 1996        | 535,928                   | 373,869 | 162,059   | 64,253      | 400,291    | 249,552    | 112,004    | 0     | 118,437              | 1,362,028           | 1,480,465                | 1,107,465                 |
| 1997        | 601,070                   | 409,738 | 191,332   | 70,276      | 393,696    | 210,321    | 132,326    | 0     | 122,408              | 1,407,689           | 1,530,097                | 1,144,592                 |
| 1998        | 540,723                   | 369,055 | 171,668   | 63,760      | 373,611    | 216,968    | 103,273    | 0     | 112,899              | 1,298,335           | 1,411,233                | 1,055,676                 |
| 1999        | 472,734                   | 410,285 | 62,449    | 70,214      | 390,390    | 237,224    | 120,903    | 0     | 112,301              | 1,291,465           | 1,403,766                | 1,050,090                 |
| 2000        | 781,252                   | 416,836 | 364,416   | 74,270      | 414,069    | 228,080    | 114,137    | 0     | 140,157              | 1,611,808           | 1,751,965                | 1,310,561                 |
| 2001        | 746,113                   | 432,138 | 313,975   | 55,556      | 414,190    | 211,106    | 124,446    | 0     | 134,905              | 1,551,411           | 1,686,316                | 1,261,452                 |
| 2002        | 582,829                   | 441,855 | 140,974   | 55,452      | 454,577    | 219,714    | 128,508    | 0     | 125,311              | 1,441,080           | 1,566,391                | 1,171,742                 |
| 2003        | 461,132                   | 437,029 | 24,103    | 55,183      | 481,988    | 186,804    | 115,621    | 170   | 113,122              | 1,300,898           | 1,414,019                | 1,057,760                 |
| 2004        | 604,011                   | 474,689 | 129,322   | 59,276      | 446,018    | 161,304    | 137,054    | 941   | 122,487              | 1,408,604           | 1,531,091                | 1,145,336                 |
| 2005        | 552,456                   | 439,787 | 112,669   | 63,549      | 430,873    | 181,141    | 113,637    | 2,839 | 116,913              | 1,344,495           | 1,461,408                | 1,093,209                 |
| 2006        | 825,623                   | 446,505 | 379,118   | 61,507      | 431,762    | 179,705    | 136,357    | 1,417 | 142,293              | 1,636,371           | 1,778,664                | 1,330,533                 |
| 2007        | 596,844                   | 444,775 | 152,069   | 52,996      | 433,648    | 202,337    | 137,096    | 3,243 | 124,014              | 1,426,164           | 1,550,178                | 1,159,614                 |
| 2008        | 817,348                   | 442,984 | 374,364   | 56,531      | 428,685    | 190,751    | 146,732    | 3,045 | 142,878              | 1,643,092           | 1,785,969                | 1,335,998                 |
| 2009        | 552,393                   | 398,398 | 153,995   | 59,092      | 366,136    | 172,548    | 122,254    | 2,554 | 110,868              | 1,274,977           | 1,385,845                | 1,036,684                 |
| 2010        | 470,404                   | 377,524 | 92,880    | 60,642      | 348,992    | 193,667    | 130,668    | 5,915 | 105,242              | 1,210,288           | 1,315,530                | 984,085                   |
| 5 Yr. Avg.  | 668,933                   | 434,490 | 234,443   | 58,735      | 418,221    | 185,296    | 131,215    | 2,620 | 127,393              | 1,465,020           | 1,592,413                | 1,191,208                 |
| 10 Yr. Avg. | 652,000                   | 437,500 | 214,500   | 59,341      | 430,195    | 193,349    | 127,584    | 1,421 | 127,295              | 1,463,890           | 1,591,185                | 1,190,289                 |

Five year average = 2005 through 2009.

Ten year average = 2000 through 2009.

# Oroville District Historical Sales





**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**  
**Sales (AF)**

Worksheet 4

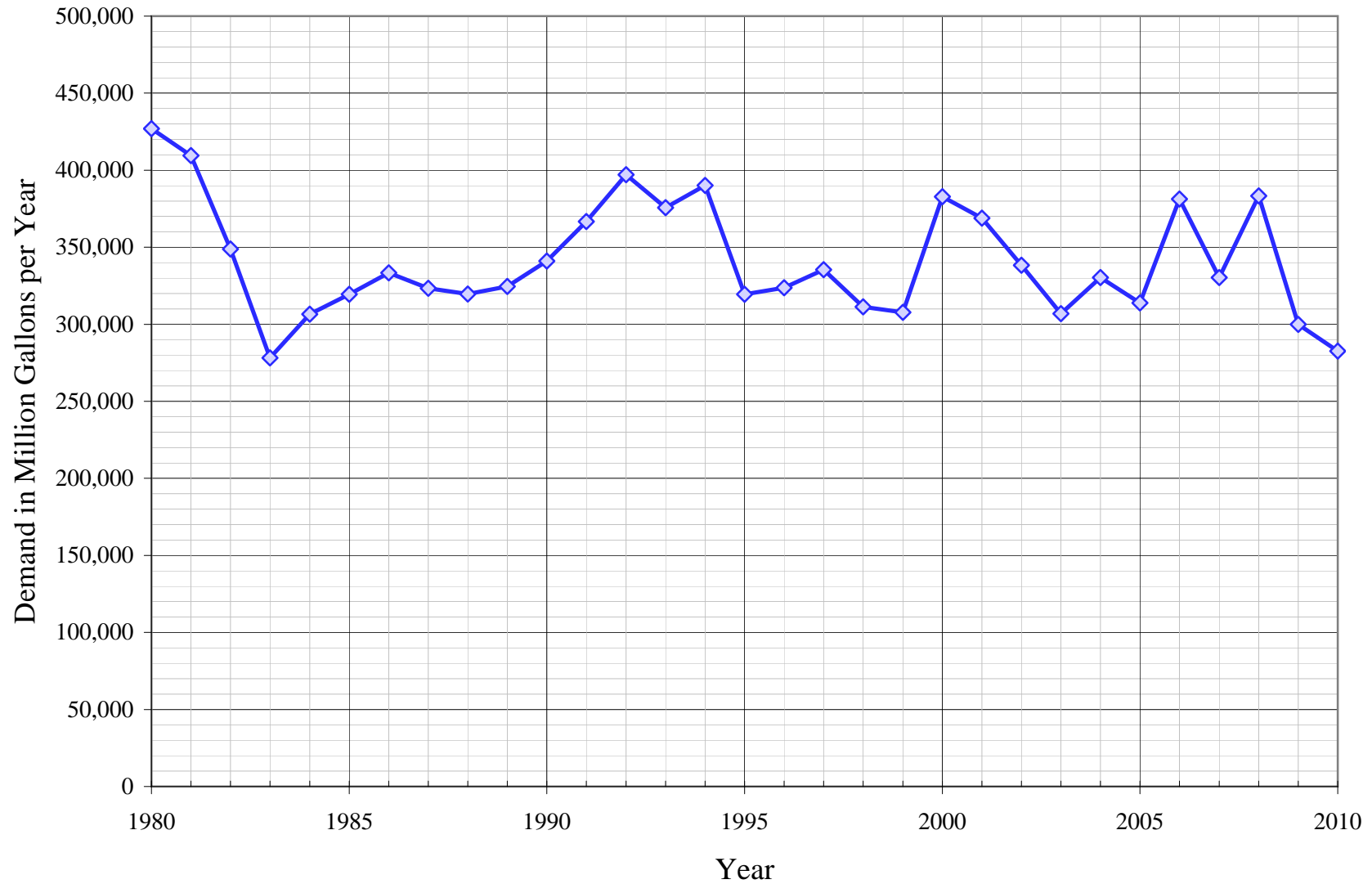
| Year        | Single Family Residential |         |           | Multifamily | Commercial | Industrial | Government | Other | Unaccounted Water | Total(AF) Sales | Total(AF) Production | Total(Mgal) Production |
|-------------|---------------------------|---------|-----------|-------------|------------|------------|------------|-------|-------------------|-----------------|----------------------|------------------------|
|             | Total                     | Metered | Flat Rate |             |            |            |            |       |                   |                 |                      |                        |
| 1980        | 2,405                     | 501     | 1,904     | 53          | 743        | 535        | 222        | 1     | 344               | 3,959           | 4,303                | 1,402                  |
| 1981        | 2,394                     | 515     | 1,879     | 66          | 673        | 444        | 227        | 3     | 331               | 3,807           | 4,138                | 1,348                  |
| 1982        | 1,944                     | 514     | 1,430     | 75          | 644        | 379        | 201        | 2     | 282               | 3,244           | 3,527                | 1,149                  |
| 1983        | 1,359                     | 538     | 822       | 66          | 656        | 304        | 197        | 0     | 225               | 2,583           | 2,807                | 915                    |
| 1984        | 1,354                     | 583     | 771       | 94          | 690        | 459        | 236        | 0     | 246               | 2,833           | 3,080                | 1,003                  |
| 1985        | 1,428                     | 597     | 830       | 89          | 767        | 442        | 224        | 6     | 257               | 2,956           | 3,213                | 1,047                  |
| 1986        | 1,286                     | 579     | 706       | 92          | 794        | 724        | 213        | 0     | 270               | 3,108           | 3,379                | 1,101                  |
| 1987        | 1,388                     | 695     | 694       | 91          | 812        | 537        | 226        | 0     | 266               | 3,053           | 3,319                | 1,081                  |
| 1988        | 1,382                     | 619     | 763       | 77          | 787        | 550        | 231        | 0     | 263               | 3,027           | 3,290                | 1,072                  |
| 1989        | 1,443                     | 580     | 863       | 88          | 806        | 545        | 201        | 0     | 268               | 3,084           | 3,352                | 1,092                  |
| 1990        | 1,463                     | 616     | 847       | 92          | 845        | 615        | 239        | 0     | 283               | 3,254           | 3,537                | 1,152                  |
| 1991        | 1,884                     | 594     | 1,290     | 88          | 830        | 484        | 228        | 0     | 305               | 3,513           | 3,819                | 1,244                  |
| 1992        | 2,222                     | 669     | 1,554     | 78          | 813        | 473        | 233        | 0     | 332               | 3,820           | 4,152                | 1,353                  |
| 1993        | 2,007                     | 681     | 1,326     | 83          | 797        | 509        | 229        | 0     | 315               | 3,625           | 3,940                | 1,284                  |
| 1994        | 2,056                     | 705     | 1,352     | 93          | 920        | 449        | 265        | 0     | 329               | 3,784           | 4,113                | 1,340                  |
| 1995        | 1,368                     | 793     | 575       | 130         | 895        | 483        | 233        | 0     | 270               | 3,108           | 3,378                | 1,101                  |
| 1996        | 1,230                     | 858     | 372       | 148         | 919        | 573        | 257        | 0     | 272               | 3,127           | 3,399                | 1,107                  |
| 1997        | 1,380                     | 941     | 439       | 161         | 904        | 483        | 304        | 0     | 281               | 3,232           | 3,513                | 1,145                  |
| 1998        | 1,241                     | 847     | 394       | 146         | 858        | 498        | 237        | 0     | 259               | 2,981           | 3,240                | 1,056                  |
| 1999        | 1,085                     | 942     | 143       | 161         | 896        | 545        | 278        | 0     | 258               | 2,965           | 3,223                | 1,050                  |
| 2000        | 1,794                     | 957     | 837       | 171         | 951        | 524        | 262        | 0     | 322               | 3,700           | 4,022                | 1,311                  |
| 2001        | 1,713                     | 992     | 721       | 128         | 951        | 485        | 286        | 0     | 310               | 3,562           | 3,871                | 1,261                  |
| 2002        | 1,338                     | 1,014   | 324       | 127         | 1,044      | 504        | 295        | 0     | 288               | 3,308           | 3,596                | 1,172                  |
| 2003        | 1,059                     | 1,003   | 55        | 127         | 1,106      | 429        | 265        | 0     | 260               | 2,986           | 3,246                | 1,058                  |
| 2004        | 1,387                     | 1,090   | 297       | 136         | 1,024      | 370        | 315        | 2     | 281               | 3,234           | 3,515                | 1,145                  |
| 2005        | 1,268                     | 1,010   | 259       | 146         | 989        | 416        | 261        | 7     | 268               | 3,087           | 3,355                | 1,093                  |
| 2006        | 1,895                     | 1,025   | 870       | 141         | 991        | 413        | 313        | 3     | 327               | 3,757           | 4,083                | 1,331                  |
| 2007        | 1,370                     | 1,021   | 349       | 122         | 996        | 465        | 315        | 7     | 285               | 3,274           | 3,559                | 1,160                  |
| 2008        | 1,876                     | 1,017   | 859       | 130         | 984        | 438        | 337        | 7     | 328               | 3,772           | 4,100                | 1,336                  |
| 2009        | 1,268                     | 915     | 354       | 136         | 841        | 396        | 281        | 6     | 255               | 2,927           | 3,181                | 1,037                  |
| 2010        | 1,080                     | 867     | 213       | 139         | 801        | 445        | 300        | 14    | 242               | 2,778           | 3,020                | 984                    |
| 5 Yr. Avg.  | 1,536                     | 997     | 538       | 135         | 960        | 425        | 301        | 6     | 292               | 3,363           | 3,656                | 1,191                  |
| 10 Yr. Avg. | 1,497                     | 1,004   | 492       | 136         | 988        | 444        | 293        | 3     | 292               | 3,361           | 3,653                | 1,190                  |

Flat Rate Residential Sales estimated by setting "Unaccounted for Water" at 8.0% of total production.

Five year average = 2005 through 2009.

Ten year average = 2000 through 2009.

# Oroville District Combined Demand Per Service



**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**  
**Demand per Service (Gallons per Year)**

Worksheet 5

| Year        | Single Family Residential |         |           | Multi-Residential |        | Commercial | Industrial | Government | Total<br>Other | Unaccounted /<br>Total Services | Combined<br>Demand/Service |
|-------------|---------------------------|---------|-----------|-------------------|--------|------------|------------|------------|----------------|---------------------------------|----------------------------|
|             | Total                     | Metered | Flat Rate | (service)         | (unit) |            |            |            |                |                                 |                            |
| 1980        | 310,459                   | 119,183 | 537,173   | 1,443,491         | 60,355 | 366,835    | 17,424,001 | 928,659    | 0              | 34,155                          | 426,936                    |
| 1981        | 309,506                   | 119,646 | 547,597   | 1,801,496         | 61,241 | 327,882    | 16,076,801 | 901,384    | 1,088,416      | 32,760                          | 409,505                    |
| 1982        | 250,921                   | 111,860 | 453,759   | 1,871,281         | 65,219 | 314,944    | 13,725,009 | 816,994    | 668,758        | 27,909                          | 348,859                    |
| 1983        | 175,767                   | 113,077 | 275,775   | 1,649,512         | 51,301 | 320,828    | 11,013,819 | 793,831    | 0              | 22,252                          | 278,145                    |
| 1984        | 176,757                   | 123,844 | 261,186   | 2,354,177         | 73,216 | 332,869    | 14,962,312 | 986,268    | 5,236          | 24,520                          | 306,502                    |
| 1985        | 185,947                   | 124,537 | 288,165   | 2,219,470         | 69,192 | 368,625    | 14,402,844 | 999,582    | 2,069,860      | 25,556                          | 319,449                    |
| 1986        | 165,870                   | 118,586 | 246,465   | 2,296,002         | 71,407 | 381,825    | 21,440,258 | 924,313    | 0              | 26,666                          | 333,320                    |
| 1987        | 177,566                   | 140,029 | 242,762   | 2,272,582         | 70,678 | 381,100    | 15,897,193 | 943,907    | 0              | 25,873                          | 323,408                    |
| 1988        | 176,501                   | 127,060 | 258,030   | 1,935,038         | 60,181 | 367,631    | 16,278,224 | 929,385    | 0              | 25,572                          | 319,656                    |
| 1989        | 184,339                   | 119,481 | 290,403   | 2,215,500         | 68,903 | 373,693    | 12,690,969 | 779,595    | 0              | 25,968                          | 324,606                    |
| 1990        | 186,837                   | 126,385 | 286,420   | 2,299,627         | 71,519 | 386,281    | 12,516,453 | 905,569    | 0              | 27,277                          | 340,964                    |
| 1991        | 239,268                   | 119,039 | 447,589   | 2,198,582         | 68,377 | 380,324    | 9,853,060  | 842,536    | 0              | 29,329                          | 366,615                    |
| 1992        | 281,449                   | 125,067 | 609,269   | 1,945,683         | 60,367 | 369,646    | 9,068,458  | 873,845    | 0              | 31,768                          | 397,100                    |
| 1993        | 254,435                   | 119,335 | 607,672   | 2,082,462         | 64,766 | 357,815    | 9,748,614  | 821,468    | 0              | 30,060                          | 375,750                    |
| 1994        | 260,333                   | 119,563 | 674,453   | 2,155,886         | 59,181 | 407,950    | 8,613,247  | 910,608    | 0              | 31,215                          | 390,183                    |
| 1995        | 173,025                   | 130,320 | 315,520   | 3,014,917         | 73,279 | 391,413    | 9,256,879  | 815,328    | 0              | 25,562                          | 319,530                    |
| 1996        | 156,847                   | 139,141 | 222,030   | 3,433,185         | 83,445 | 410,190    | 10,981,051 | 805,623    | 0              | 25,898                          | 323,726                    |
| 1997        | 174,276                   | 148,070 | 280,640   | 3,755,007         | 90,952 | 430,563    | 10,488,736 | 831,821    | 0              | 26,837                          | 335,461                    |
| 1998        | 157,022                   | 131,651 | 268,093   | 3,406,843         | 82,234 | 415,276    | 10,820,223 | 683,660    | 0              | 24,905                          | 311,317                    |
| 1999        | 136,431                   | 142,552 | 106,412   | 3,751,695         | 90,871 | 432,000    | 11,830,393 | 786,450    | 0              | 24,621                          | 307,764                    |
| 2000        | 225,796                   | 143,034 | 667,733   | 3,968,416         | 95,378 | 448,635    | 11,374,380 | 736,038    | 0              | 30,624                          | 382,795                    |
| 2001        | 215,571                   | 146,937 | 603,648   | 2,968,484         | 72,005 | 453,584    | 10,527,884 | 785,035    | 0              | 29,510                          | 368,873                    |
| 2002        | 166,011                   | 148,620 | 262,165   | 2,962,927         | 72,183 | 492,346    | 10,957,166 | 818,133    | 0              | 27,066                          | 338,320                    |
| 2003        | 132,110                   | 146,077 | 48,327    | 2,948,554         | 71,418 | 522,161    | 9,315,940  | 747,218    | 0              | 24,554                          | 306,923                    |
| 2004        | 171,864                   | 156,084 | 273,276   | 3,167,252         | 73,780 | 484,245    | 7,541,486  | 876,269    | 351,958        | 26,428                          | 330,354                    |
| 2005        | 156,837                   | 142,912 | 253,100   | 3,395,568         | 76,674 | 464,431    | 8,468,930  | 708,387    | 530,930        | 25,110                          | 313,870                    |
| 2006        | 234,031                   | 144,031 | 886,249   | 3,286,460         | 77,328 | 466,735    | 8,401,793  | 829,286    | 211,998        | 30,508                          | 381,351                    |
| 2007        | 168,479                   | 142,064 | 369,336   | 2,831,697         | 68,826 | 462,096    | 9,459,912  | 854,624    | 303,242        | 26,430                          | 330,374                    |
| 2008        | 234,350                   | 141,372 | 1,056,768 | 3,020,581         | 73,417 | 447,875    | 8,918,229  | 892,383    | 284,727        | 30,660                          | 383,247                    |
| 2009        | 160,162                   | 126,388 | 518,903   | 3,157,421         | 76,743 | 380,930    | 8,067,180  | 749,609    | 318,421        | 23,990                          | 299,880                    |
| 2010        | 135,133                   | 117,425 | 349,140   | 3,024,225         |        | 362,086    | 9,054,562  | 821,399    | 632,104        | 22,610                          | 282,621                    |
| 5 Yr. Avg.  | 190,772                   | 139,353 | 616,871   | 3,138,345         | 74,598 | 444,413    | 8,663,209  | 806,858    | 329,864        | 27,340                          | 341,744                    |
| 10 Yr. Avg. | 186,521                   | 143,752 | 493,951   | 3,170,736         | 75,775 | 462,304    | 9,303,290  | 799,698    | 200,128        | 27,488                          | 343,599                    |

Five year average is from years 2005 through 2009.

Ten year average is from years 2000 through 2009.

**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**  
**Demand per Service (Gallons per Day)**

| Year        | Single Family Residential |         |           | Multi-Residential |        | Commercial | Industrial | Government | Total<br>Other | Unaccounted/<br>Total Services | Combined<br>Demand/Service |
|-------------|---------------------------|---------|-----------|-------------------|--------|------------|------------|------------|----------------|--------------------------------|----------------------------|
|             | Total                     | Metered | Flat Rate | (service)         | (unit) |            |            |            |                |                                |                            |
| 1980        | 851                       | 327     | 1,472     | 3,955             | 165    | 1,005      | 47,737     | 2,544      | 0              | 94                             | 1,170                      |
| 1981        | 848                       | 328     | 1,500     | 4,936             | 168    | 898        | 44,046     | 2,470      | 2,982          | 90                             | 1,122                      |
| 1982        | 687                       | 306     | 1,243     | 5,127             | 179    | 863        | 37,603     | 2,238      | 1,832          | 76                             | 956                        |
| 1983        | 482                       | 310     | 756       | 4,519             | 141    | 879        | 30,175     | 2,175      | 0              | 61                             | 762                        |
| 1984        | 484                       | 339     | 716       | 6,450             | 201    | 912        | 40,993     | 2,702      | 14             | 67                             | 840                        |
| 1985        | 509                       | 341     | 789       | 6,081             | 190    | 1,010      | 39,460     | 2,739      | 5,671          | 70                             | 875                        |
| 1986        | 454                       | 325     | 675       | 6,290             | 196    | 1,046      | 58,740     | 2,532      | 0              | 73                             | 913                        |
| 1987        | 486                       | 384     | 665       | 6,226             | 194    | 1,044      | 43,554     | 2,586      | 0              | 71                             | 886                        |
| 1988        | 484                       | 348     | 707       | 5,301             | 165    | 1,007      | 44,598     | 2,546      | 0              | 70                             | 876                        |
| 1989        | 505                       | 327     | 796       | 6,070             | 189    | 1,024      | 34,770     | 2,136      | 0              | 71                             | 889                        |
| 1990        | 512                       | 346     | 785       | 6,300             | 196    | 1,058      | 34,292     | 2,481      | 0              | 75                             | 934                        |
| 1991        | 656                       | 326     | 1,226     | 6,024             | 187    | 1,042      | 26,995     | 2,308      | 0              | 80                             | 1,004                      |
| 1992        | 771                       | 343     | 1,669     | 5,331             | 165    | 1,013      | 24,845     | 2,394      | 0              | 87                             | 1,088                      |
| 1993        | 697                       | 327     | 1,665     | 5,705             | 177    | 980        | 26,709     | 2,251      | 0              | 82                             | 1,029                      |
| 1994        | 713                       | 328     | 1,848     | 5,907             | 162    | 1,118      | 23,598     | 2,495      | 0              | 86                             | 1,069                      |
| 1995        | 474                       | 357     | 864       | 8,260             | 201    | 1,072      | 25,361     | 2,234      | 0              | 70                             | 875                        |
| 1996        | 430                       | 381     | 608       | 9,406             | 229    | 1,124      | 30,085     | 2,207      | 0              | 71                             | 887                        |
| 1997        | 477                       | 406     | 769       | 10,288            | 249    | 1,180      | 28,736     | 2,279      | 0              | 74                             | 919                        |
| 1998        | 430                       | 361     | 735       | 9,334             | 225    | 1,138      | 29,644     | 1,873      | 0              | 68                             | 853                        |
| 1999        | 374                       | 391     | 292       | 10,279            | 249    | 1,184      | 32,412     | 2,155      | 0              | 67                             | 843                        |
| 2000        | 619                       | 392     | 1,829     | 10,872            | 261    | 1,229      | 31,163     | 2,017      | 0              | 84                             | 1,049                      |
| 2001        | 591                       | 403     | 1,654     | 8,133             | 197    | 1,243      | 28,844     | 2,151      | 0              | 81                             | 1,011                      |
| 2002        | 455                       | 407     | 718       | 8,118             | 198    | 1,349      | 30,020     | 2,241      | 0              | 74                             | 927                        |
| 2003        | 362                       | 400     | 132       | 8,078             | 196    | 1,431      | 25,523     | 2,047      | 0              | 67                             | 841                        |
| 2004        | 471                       | 428     | 749       | 8,677             | 202    | 1,327      | 20,662     | 2,401      | 964            | 72                             | 905                        |
| 2005        | 430                       | 392     | 693       | 9,303             | 210    | 1,272      | 23,203     | 1,941      | 1,455          | 69                             | 860                        |
| 2006        | 641                       | 395     | 2,428     | 9,004             | 212    | 1,279      | 23,019     | 2,272      | 581            | 84                             | 1,045                      |
| 2007        | 462                       | 389     | 1,012     | 7,758             | 189    | 1,266      | 25,918     | 2,341      | 831            | 72                             | 905                        |
| 2008        | 642                       | 387     | 2,895     | 8,276             | 201    | 1,227      | 24,434     | 2,445      | 780            | 84                             | 1,050                      |
| 2009        | 439                       | 346     | 1,422     | 8,650             | 210    | 1,044      | 22,102     | 2,054      | 872            | 66                             | 822                        |
| 2010        | 370                       | 322     | 957       | 8,286             | 0      | 992        | 24,807     | 2,250      | 1,732          | 62                             | 774                        |
| 5 Yr. Avg.  | 523                       | 382     | 1,690     | 8,598             | 204    | 1,218      | 23,735     | 2,211      | 904            | 75                             | 936                        |
| 10 Yr. Avg. | 511                       | 394     | 1,353     | 8,687             | 208    | 1,267      | 25,488     | 2,191      | 548            | 75                             | 941                        |

Five year average is from years 2005 through 2009.

Ten year average is from years 2000 through 2009.

**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**  
**Percentage Change in Annual Demand**

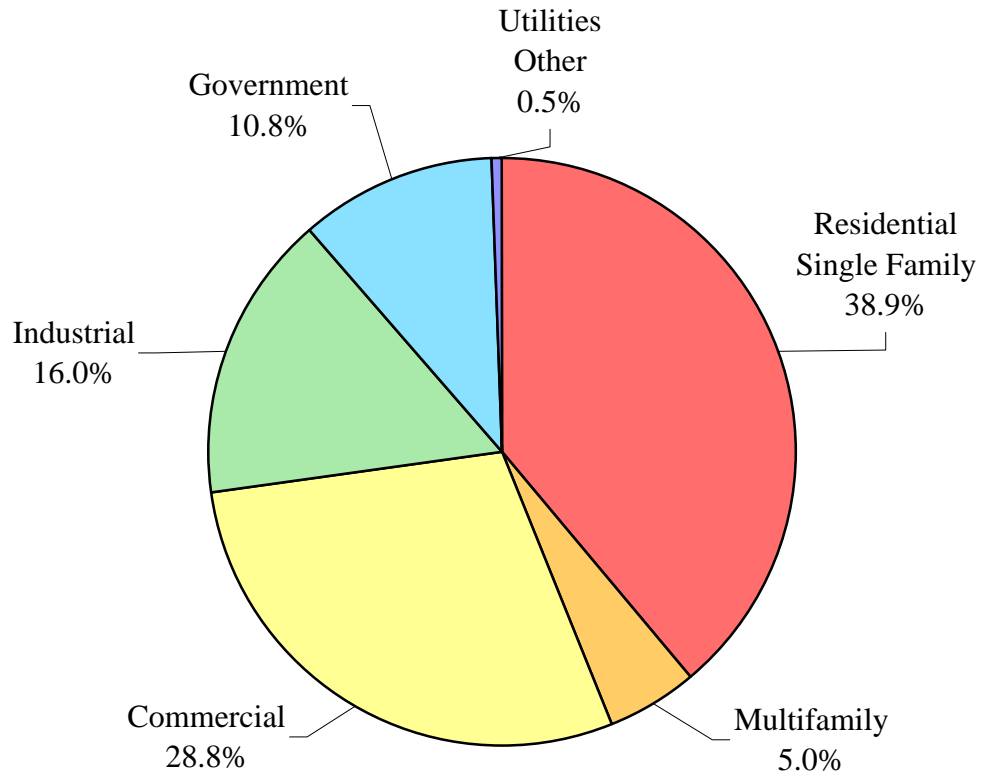
| Year        | Single Family Residential |         |           | Multi-      |            |            |            |           | Unaccounted | Total   |
|-------------|---------------------------|---------|-----------|-------------|------------|------------|------------|-----------|-------------|---------|
|             | Total                     | Metered | Flat Rate | Residential | Commercial | Industrial | Government | Other     | Water       |         |
| 1981        | -0.46%                    | 2.81%   | -1.33%    | 24.80%      | -9.40%     | -16.96%    | 2.04%      | 482.00%   | -3.82%      | -3.82%  |
| 1982        | -18.77%                   | -0.11%  | -23.88%   | 12.53%      | -4.38%     | -14.63%    | -11.57%    | -38.56%   | -14.78%     | -14.78% |
| 1983        | -30.09%                   | 4.53%   | -42.54%   | -11.85%     | 1.87%      | -19.75%    | -1.62%     | -75.95%   | -20.39%     | -20.39% |
| 1984        | -0.36%                    | 8.53%   | -6.17%    | 42.72%      | 5.16%      | 50.94%     | 19.64%     | -96.74%   | 9.69%       | 9.69%   |
| 1985        | 5.41%                     | 2.39%   | 7.69%     | -5.72%      | 11.23%     | -3.74%     | -5.15%     | 39428.57% | 4.32%       | 4.32%   |
| 1986        | -9.94%                    | -3.01%  | -14.93%   | 3.45%       | 3.58%      | 63.75%     | -5.00%     | -100.00%  | 5.17%       | 5.17%   |
| 1987        | 7.98%                     | 19.94%  | -1.82%    | -1.02%      | 2.17%      | -25.85%    | 6.20%      | 0.00%     | -1.77%      | -1.77%  |
| 1988        | -0.48%                    | -10.89% | 9.94%     | -14.85%     | -2.98%     | 2.40%      | 2.25%      | 0.00%     | -0.86%      | -0.86%  |
| 1989        | 4.44%                     | -6.26%  | 13.13%    | 14.49%      | 2.38%      | -0.77%     | -13.01%    | 0.00%     | 1.88%       | 1.88%   |
| 1990        | 1.39%                     | 6.11%   | -1.78%    | 3.80%       | 4.84%      | 12.71%     | 18.92%     | 0.00%     | 5.51%       | 5.51%   |
| 1991        | 28.77%                    | -3.50%  | 52.22%    | -4.39%      | -1.82%     | -21.28%    | -4.80%     | 0.00%     | 7.97%       | 7.97%   |
| 1992        | 17.95%                    | 12.49%  | 20.47%    | -11.50%     | -1.99%     | -2.21%     | 2.54%      | 0.00%     | 8.73%       | 8.73%   |
| 1993        | -9.70%                    | 1.83%   | -14.66%   | 7.03%       | -1.99%     | 7.50%      | -1.67%     | 0.00%     | -5.10%      | -5.10%  |
| 1994        | 2.48%                     | 3.53%   | 1.94%     | 11.49%      | 15.42%     | -11.65%    | 15.72%     | 0.00%     | 4.39%       | 4.39%   |
| 1995        | -33.49%                   | 12.46%  | -57.45%   | 39.85%      | -2.75%     | 7.47%      | -12.35%    | 0.00%     | -17.87%     | -17.87% |
| 1996        | -10.05%                   | 8.28%   | -35.32%   | 13.87%      | 2.69%      | 18.63%     | 10.50%     | 0.00%     | 0.61%       | 0.61%   |
| 1997        | 12.15%                    | 9.59%   | 18.06%    | 9.37%       | -1.65%     | -15.72%    | 18.14%     | 0.00%     | 3.35%       | 3.35%   |
| 1998        | -10.04%                   | -9.93%  | -10.28%   | -9.27%      | -5.10%     | 3.16%      | -21.96%    | 0.00%     | -7.77%      | -7.77%  |
| 1999        | -12.57%                   | 11.17%  | -63.62%   | 10.12%      | 4.49%      | 9.34%      | 17.07%     | 0.00%     | -0.53%      | -0.53%  |
| 2000        | 65.26%                    | 1.60%   | 483.54%   | 5.78%       | 6.07%      | -3.85%     | -5.60%     | 0.00%     | 24.80%      | 24.80%  |
| 2001        | -4.50%                    | 3.67%   | -13.84%   | -25.20%     | 0.03%      | -7.44%     | 9.03%      | 0.00%     | -3.75%      | -3.75%  |
| 2002        | -21.88%                   | 2.25%   | -55.10%   | -0.19%      | 9.75%      | 4.08%      | 3.26%      | 0.00%     | -7.11%      | -7.11%  |
| 2003        | -20.88%                   | -1.09%  | -82.90%   | -0.49%      | 6.03%      | -14.98%    | -10.03%    | 0.00%     | -9.73%      | -9.73%  |
| 2004        | 30.98%                    | 8.62%   | 436.54%   | 7.42%       | -7.46%     | -13.65%    | 18.54%     | 453.53%   | 8.28%       | 8.28%   |
| 2005        | -8.54%                    | -7.35%  | -12.88%   | 7.21%       | -3.40%     | 12.30%     | -17.09%    | 201.70%   | -4.55%      | -4.55%  |
| 2006        | 49.45%                    | 1.53%   | 236.49%   | -3.21%      | 0.21%      | -0.79%     | 19.99%     | -50.09%   | 21.71%      | 21.71%  |
| 2007        | -27.71%                   | -0.39%  | -59.89%   | -13.84%     | 0.44%      | 12.59%     | 0.54%      | 128.86%   | -12.85%     | -12.85% |
| 2008        | 36.94%                    | -0.40%  | 146.18%   | 6.67%       | -1.14%     | -5.73%     | 7.03%      | -6.11%    | 15.21%      | 15.21%  |
| 2009        | -32.42%                   | -10.06% | -58.86%   | 4.53%       | -14.59%    | -9.54%     | -16.68%    | -16.12%   | -22.40%     | -22.40% |
| 2010        | -14.84%                   | -5.24%  | -39.69%   | 2.62%       | -4.68%     | 12.24%     | 6.88%      | 131.60%   | -5.07%      | -5.07%  |
| 5 Yr. Avg.  | 3.54%                     | -3.33%  | 50.21%    | 0.27%       | -3.70%     | 1.77%      | -1.24%     | 51.65%    | -0.58%      | -0.58%  |
| 10 Yr. Avg. | 6.67%                     | -0.16%  | 101.93%   | -1.13%      | -0.41%     | -2.70%     | 0.90%      | 71.18%    | 0.96%       | 0.96%   |

Five Year Average is from 2005 through 2009.

Ten Year Average is from 2000 through 2009.

# Oroville District

## Percent of Total Sales by Type of Use (2010)



**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**  
**Percentage of Total Sales**

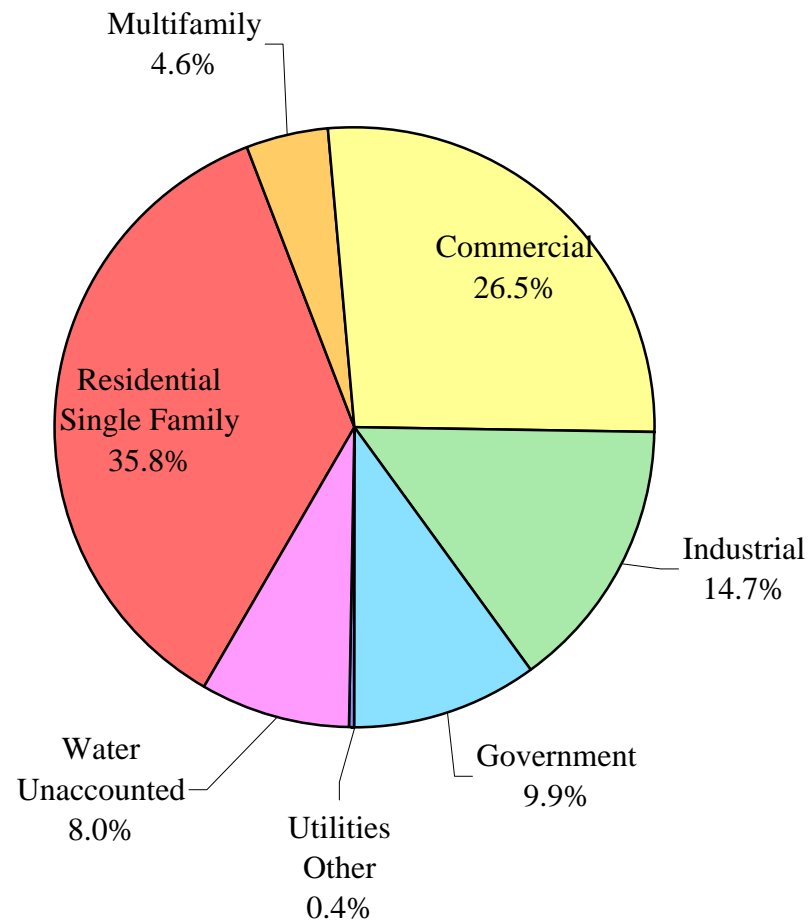
| Year        | Single Family |             |            |            |            |       | Other Utilities | Percent Total |
|-------------|---------------|-------------|------------|------------|------------|-------|-----------------|---------------|
|             | Residential   | Multifamily | Commercial | Industrial | Government |       |                 |               |
| 1980        | 60.75%        | 1.34%       | 18.77%     | 13.51%     | 5.62%      | 0.01% | 100.00%         |               |
| 1981        | 62.87%        | 1.74%       | 17.68%     | 11.66%     | 5.96%      | 0.09% | 100.00%         |               |
| 1982        | 59.93%        | 2.30%       | 19.84%     | 11.68%     | 6.18%      | 0.06% | 100.00%         |               |
| 1983        | 52.63%        | 2.55%       | 25.39%     | 11.78%     | 7.64%      | 0.02% | 100.00%         |               |
| 1984        | 47.81%        | 3.31%       | 24.34%     | 16.21%     | 8.33%      | 0.00% | 100.00%         |               |
| 1985        | 48.31%        | 3.00%       | 25.95%     | 14.95%     | 7.58%      | 0.21% | 100.00%         |               |
| 1986        | 41.37%        | 2.95%       | 25.56%     | 23.28%     | 6.84%      | 0.00% | 100.00%         |               |
| 1987        | 45.47%        | 2.97%       | 26.58%     | 17.58%     | 7.40%      | 0.00% | 100.00%         |               |
| 1988        | 45.65%        | 2.55%       | 26.02%     | 18.15%     | 7.63%      | 0.00% | 100.00%         |               |
| 1989        | 46.79%        | 2.87%       | 26.14%     | 17.68%     | 6.52%      | 0.00% | 100.00%         |               |
| 1990        | 44.97%        | 2.82%       | 25.98%     | 18.89%     | 7.35%      | 0.00% | 100.00%         |               |
| 1991        | 53.63%        | 2.50%       | 23.62%     | 13.77%     | 6.48%      | 0.00% | 100.00%         |               |
| 1992        | 58.18%        | 2.03%       | 21.29%     | 12.39%     | 6.11%      | 0.00% | 100.00%         |               |
| 1993        | 55.36%        | 2.29%       | 21.99%     | 14.03%     | 6.33%      | 0.00% | 100.00%         |               |
| 1994        | 54.34%        | 2.45%       | 24.32%     | 11.87%     | 7.02%      | 0.00% | 100.00%         |               |
| 1995        | 44.01%        | 4.17%       | 28.79%     | 15.54%     | 7.49%      | 0.00% | 100.00%         |               |
| 1996        | 39.35%        | 4.72%       | 29.39%     | 18.32%     | 8.22%      | 0.00% | 100.00%         |               |
| 1997        | 42.70%        | 4.99%       | 27.97%     | 14.94%     | 9.40%      | 0.00% | 100.00%         |               |
| 1998        | 41.65%        | 4.91%       | 28.78%     | 16.71%     | 7.95%      | 0.00% | 100.00%         |               |
| 1999        | 36.60%        | 5.44%       | 30.23%     | 18.37%     | 9.36%      | 0.00% | 100.00%         |               |
| 2000        | 48.47%        | 4.61%       | 25.69%     | 14.15%     | 7.08%      | 0.00% | 100.00%         |               |
| 2001        | 48.09%        | 3.58%       | 26.70%     | 13.61%     | 8.02%      | 0.00% | 100.00%         |               |
| 2002        | 40.44%        | 3.85%       | 31.54%     | 15.25%     | 8.92%      | 0.00% | 100.00%         |               |
| 2003        | 35.45%        | 4.24%       | 37.05%     | 14.36%     | 8.89%      | 0.01% | 100.00%         |               |
| 2004        | 42.88%        | 4.21%       | 31.66%     | 11.45%     | 9.73%      | 0.07% | 100.00%         |               |
| 2005        | 41.09%        | 4.73%       | 32.05%     | 13.47%     | 8.45%      | 0.21% | 100.00%         |               |
| 2006        | 50.45%        | 3.76%       | 26.39%     | 10.98%     | 8.33%      | 0.09% | 100.00%         |               |
| 2007        | 41.85%        | 3.72%       | 30.41%     | 14.19%     | 9.61%      | 0.23% | 100.00%         |               |
| 2008        | 49.74%        | 3.44%       | 26.09%     | 11.61%     | 8.93%      | 0.19% | 100.00%         |               |
| 2009        | 43.33%        | 4.63%       | 28.72%     | 13.53%     | 9.59%      | 0.20% | 100.00%         |               |
| 2010        | 38.87%        | 5.01%       | 28.84%     | 16.00%     | 10.80%     | 0.49% | 100.00%         |               |
| 5 Yr. Avg.  | 45.29%        | 4.06%       | 28.73%     | 12.76%     | 8.98%      | 0.18% | 100.00%         |               |
| 10 Yr. Avg. | 44.18%        | 4.08%       | 29.63%     | 13.26%     | 8.76%      | 0.10% | 100.00%         |               |

Five Year Average is from 2005 through 2009.

Ten Year Average is from 2000 through 2009.

# Oroville District

## Percent of Total Demand by Type of Use (2010)





**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**  
**Percentage of Total Demand**

| Year        | Single Family |             | Commercial | Industrial | Government | Other Utilities | Unaccounted Water | Percent Total |
|-------------|---------------|-------------|------------|------------|------------|-----------------|-------------------|---------------|
|             | Residential   | Multifamily |            |            |            |                 |                   |               |
| 1980        | 55.89%        | 1.24%       | 17.27%     | 12.43%     | 5.17%      | 0.01%           | 8.00%             | 100.00%       |
| 1981        | 57.84%        | 1.60%       | 16.27%     | 10.73%     | 5.48%      | 0.08%           | 8.00%             | 100.00%       |
| 1982        | 55.13%        | 2.12%       | 18.25%     | 10.75%     | 5.69%      | 0.06%           | 8.00%             | 100.00%       |
| 1983        | 48.42%        | 2.34%       | 23.36%     | 10.84%     | 7.03%      | 0.02%           | 8.00%             | 100.00%       |
| 1984        | 43.98%        | 3.05%       | 22.39%     | 14.91%     | 7.67%      | 0.00%           | 8.00%             | 100.00%       |
| 1985        | 44.44%        | 2.76%       | 23.87%     | 13.76%     | 6.97%      | 0.20%           | 8.00%             | 100.00%       |
| 1986        | 38.06%        | 2.71%       | 23.51%     | 21.42%     | 6.30%      | 0.00%           | 8.00%             | 100.00%       |
| 1987        | 41.84%        | 2.73%       | 24.46%     | 16.17%     | 6.81%      | 0.00%           | 8.00%             | 100.00%       |
| 1988        | 42.00%        | 2.35%       | 23.93%     | 16.70%     | 7.02%      | 0.00%           | 8.00%             | 100.00%       |
| 1989        | 43.05%        | 2.64%       | 24.05%     | 16.27%     | 6.00%      | 0.00%           | 8.00%             | 100.00%       |
| 1990        | 41.37%        | 2.59%       | 23.90%     | 17.38%     | 6.76%      | 0.00%           | 8.00%             | 100.00%       |
| 1991        | 49.34%        | 2.30%       | 21.73%     | 12.67%     | 5.96%      | 0.00%           | 8.00%             | 100.00%       |
| 1992        | 53.53%        | 1.87%       | 19.59%     | 11.39%     | 5.62%      | 0.00%           | 8.00%             | 100.00%       |
| 1993        | 50.93%        | 2.11%       | 20.23%     | 12.91%     | 5.82%      | 0.00%           | 8.00%             | 100.00%       |
| 1994        | 50.00%        | 2.25%       | 22.37%     | 10.92%     | 6.45%      | 0.00%           | 8.00%             | 100.00%       |
| 1995        | 40.49%        | 3.83%       | 26.49%     | 14.30%     | 6.89%      | 0.00%           | 8.00%             | 100.00%       |
| 1996        | 36.20%        | 4.34%       | 27.04%     | 16.86%     | 7.57%      | 0.00%           | 8.00%             | 100.00%       |
| 1997        | 39.28%        | 4.59%       | 25.73%     | 13.75%     | 8.65%      | 0.00%           | 8.00%             | 100.00%       |
| 1998        | 38.32%        | 4.52%       | 26.47%     | 15.37%     | 7.32%      | 0.00%           | 8.00%             | 100.00%       |
| 1999        | 33.68%        | 5.00%       | 27.81%     | 16.90%     | 8.61%      | 0.00%           | 8.00%             | 100.00%       |
| 2000        | 44.59%        | 4.24%       | 23.63%     | 13.02%     | 6.51%      | 0.00%           | 8.00%             | 100.00%       |
| 2001        | 44.25%        | 3.29%       | 24.56%     | 12.52%     | 7.38%      | 0.00%           | 8.00%             | 100.00%       |
| 2002        | 37.21%        | 3.54%       | 29.02%     | 14.03%     | 8.20%      | 0.00%           | 8.00%             | 100.00%       |
| 2003        | 32.61%        | 3.90%       | 34.09%     | 13.21%     | 8.18%      | 0.01%           | 8.00%             | 100.00%       |
| 2004        | 39.45%        | 3.87%       | 29.13%     | 10.54%     | 8.95%      | 0.06%           | 8.00%             | 100.00%       |
| 2005        | 37.80%        | 4.35%       | 29.48%     | 12.39%     | 7.78%      | 0.19%           | 8.00%             | 100.00%       |
| 2006        | 46.42%        | 3.46%       | 24.27%     | 10.10%     | 7.67%      | 0.08%           | 8.00%             | 100.00%       |
| 2007        | 38.50%        | 3.42%       | 27.97%     | 13.05%     | 8.84%      | 0.21%           | 8.00%             | 100.00%       |
| 2008        | 45.76%        | 3.17%       | 24.00%     | 10.68%     | 8.22%      | 0.17%           | 8.00%             | 100.00%       |
| 2009        | 39.86%        | 4.26%       | 26.42%     | 12.45%     | 8.82%      | 0.18%           | 8.00%             | 100.00%       |
| 2010        | 35.76%        | 4.61%       | 26.53%     | 14.72%     | 9.93%      | 0.45%           | 8.00%             | 100.00%       |
| 5 Yr. Avg.  | 41.67%        | 3.73%       | 26.43%     | 11.74%     | 8.26%      | 0.17%           | 8.00%             | 100.00%       |
| 10 Yr. Avg. | 40.65%        | 3.75%       | 27.26%     | 12.20%     | 8.06%      | 0.09%           | 8.00%             | 100.00%       |

Five Year Average is from 2005 through 2009.

Ten Year Average is from 2000 through 2009.

**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**

Scenario #1: Based on Maintaining Growth at the  10-Year Average Annual Growth and  Low Demand per Service for each Customer Class.  
 5-Year  Average  High

| Summary of Historical Growth Rate from Worksheet 2 |                                    |                                 |                          |
|----------------------------------------------------|------------------------------------|---------------------------------|--------------------------|
| Customer Type                                      | 10 Yr. Avg. Historical Growth Rate | Individual Growth Rate Selected | Notes                    |
| Single Family Residential                          | -0.042%                            | 0.134%                          | Overall growth rate used |
| Multi Family Residential                           | 0.000%                             | 0.134%                          | Overall growth rate used |
| Commercial                                         | 0.624%                             | 0.134%                          | Overall growth rate used |
| Industrial                                         | 0.667%                             | 0.667%                          | Overall growth rate used |
| Government                                         | 0.609%                             | 0.134%                          | Overall growth rate used |
| Other                                              | 6.000%                             | 0.134%                          | Overall growth rate used |
| Overall                                            | 0.134%                             | 0.141%                          |                          |

| Summary of Lowest Demand per Service from Worksheets 5 and 6 |                   |           |        |            |            |            |             |                         |                       |
|--------------------------------------------------------------|-------------------|-----------|--------|------------|------------|------------|-------------|-------------------------|-----------------------|
| Demand/Serv. Units                                           | Multi-Residential |           |        |            |            |            | Total Other | Unaccounted Total Serv. | Combined Demand/Serv. |
|                                                              | Residential       | (service) | (unit) | Commercial | Industrial | Government |             |                         |                       |
| Gal/Service/Yr                                               | 175,767           | 1,649,512 | 51,301 | 320,828    | 7,541,486  | 683,660    | 0           | 22,252                  | 278,145               |
| AF/Service/Yr                                                | 0.539             | 5.062     | 0.157  | 0.985      | 23.144     | 2.098      | 0.000       | 0.068                   | 0.854                 |
| Gal/Service/Day                                              | 482               | 4,519     | 141    | 879        | 20,662     | 1,873      | 0           | 61                      | 762                   |

## California Water Service Company - Oroville District

### Water Supply and Demand Analysis and Projections

Worksheet 10

#### 30-year projection Summary

Scenario #1: Based on Maintaining Growth at the

- 10-Year  
 5-Year

Average Annual Growth and

- Low  
 Average  
 High

Demand per Service for each Customer Class.

| Customer Type             | Projected Services<br>2010 | Projected Services<br>2015 | Projected Services<br>2020 | Projected Services<br>2025 | Projected Services<br>2030 | Projected Services<br>2035 | Projected Services<br>2040 | Services projected to be added<br>from 2010 - 2040 |
|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------------------------------|
| Single Family Residential | 2,583                      | 2,601                      | 2,618                      | 2,636                      | 2,654                      | 2,671                      | 2,689                      | 106                                                |
| Multi Family Residential  | 14                         | 14                         | 14                         | 14                         | 14                         | 14                         | 15                         | 1                                                  |
| Commercial                | 720                        | 725                        | 730                        | 735                        | 740                        | 744                        | 749                        | 30                                                 |
| Industrial                | 16                         | 17                         | 17                         | 18                         | 18                         | 19                         | 20                         | 4                                                  |
| Government                | 122                        | 123                        | 124                        | 125                        | 125                        | 126                        | 127                        | 5                                                  |
| Other                     | 6                          | 6                          | 6                          | 6                          | 6                          | 6                          | 6                          | 0                                                  |
| <b>Total</b>              | <b>3,462</b>               | <b>3,485</b>               | <b>3,509</b>               | <b>3,533</b>               | <b>3,558</b>               | <b>3,582</b>               | <b>3,607</b>               | <b>145</b>                                         |

| Customer Type             | Projected Demand<br>2010 (ccf) | Projected Demand<br>2015 (ccf) | Projected Demand<br>2020 (ccf) | Projected Demand<br>2025 (ccf) | Projected Demand<br>2030 (ccf) | Projected Demand<br>2035 (ccf) | Projected Demand<br>2040 (ccf) | Projected demand to be added<br>from<br>2010 - 2040 (ccf) |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------------------------------------|
| Single Family Residential | 607,024                        | 611,102                        | 615,208                        | 619,341                        | 623,501                        | 627,690                        | 631,907                        | 24,882                                                    |
| Multi Family Residential  | 30,912                         | 31,120                         | 31,329                         | 31,540                         | 31,751                         | 31,965                         | 32,179                         | 1,267                                                     |
| Commercial                | 308,780                        | 310,854                        | 312,943                        | 315,045                        | 317,161                        | 319,292                        | 321,437                        | 12,657                                                    |
| Industrial                | 162,379                        | 167,867                        | 173,541                        | 179,406                        | 185,470                        | 191,738                        | 198,219                        | 35,839                                                    |
| Government                | 111,647                        | 112,397                        | 113,152                        | 113,913                        | 114,678                        | 115,448                        | 116,224                        | 4,577                                                     |
| Other                     | 0                              | 0                              | 0                              | 0                              | 0                              | 0                              | 0                              | 0                                                         |
| Unaccounted               | 102,972                        | 103,677                        | 104,387                        | 105,102                        | 105,822                        | 106,548                        | 107,279                        | 4,307                                                     |
| <b>Total</b>              | <b>1,323,715</b>               | <b>1,337,018</b>               | <b>1,350,559</b>               | <b>1,364,346</b>               | <b>1,378,384</b>               | <b>1,392,681</b>               | <b>1,407,245</b>               | <b>83,530</b>                                             |

| Customer Type             | Projected Demand<br>2010 (AF) | Projected Demand<br>2015 (AF) | Projected Demand<br>2020 (AF) | Projected Demand<br>2025 (AF) | Projected Demand<br>2030 (AF) | Projected Demand<br>2035 (AF) | Projected Demand<br>2040 (AF) | Projected demand to be added<br>from<br>2010 - 2040 (AF) |
|---------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------------------------------------------|
| Single Family Residential | 1,394                         | 1,403                         | 1,412                         | 1,422                         | 1,431                         | 1,441                         | 1,451                         | 57                                                       |
| Multi Family Residential  | 71                            | 71                            | 72                            | 72                            | 73                            | 73                            | 74                            | 3                                                        |
| Commercial                | 709                           | 714                           | 718                           | 723                           | 728                           | 733                           | 738                           | 29                                                       |
| Industrial                | 373                           | 385                           | 398                           | 412                           | 426                           | 440                           | 455                           | 82                                                       |
| Government                | 256                           | 258                           | 260                           | 262                           | 263                           | 265                           | 267                           | 11                                                       |
| Other                     | 0                             | 0                             | 0                             | 0                             | 0                             | 0                             | 0                             | 0                                                        |
| Unaccounted               | 236                           | 238                           | 240                           | 241                           | 243                           | 245                           | 246                           | 10                                                       |
| <b>Total</b>              | <b>3,039</b>                  | <b>3,069</b>                  | <b>3,100</b>                  | <b>3,132</b>                  | <b>3,164</b>                  | <b>3,197</b>                  | <b>3,231</b>                  | <b>192</b>                                               |
|                           | 2,802                         | 2,831                         | 2,861                         | 2,891                         | 2,921                         | 2,953                         | 2,984                         |                                                          |

**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**

Scenario #1: Based on Maintaining Growth at the

- 10-Year
- 5-Year

Average Annual Growth and

- Low
- Average
- High

**2000's Projections**

Demand per Service for each Customer Class.

| Customer Type     | Actual Services 2001 | Actual Services 2002 | Actual Services 2003 | Actual Services 2004 | Actual Services 2005 | Actual Services 2006 | Actual Services 2007 | Actual Services 2008 | Actual Services 2009 | Projected Services 2010 |
|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|
| Residential       | 2,589                | 2,626                | 2,611                | 2,629                | 2,635                | 2,639                | 2,650                | 2,609                | 2,580                | 2,583                   |
| Multi-Residential | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                      |
| Commercial        | 683                  | 691                  | 691                  | 689                  | 694                  | 692                  | 702                  | 716                  | 719                  | 720                     |
| Industrial        | 15                   | 15                   | 15                   | 16                   | 16                   | 16                   | 16                   | 16                   | 16                   | 16                      |
| Government        | 119                  | 118                  | 116                  | 117                  | 120                  | 123                  | 120                  | 123                  | 122                  | 122                     |
| Other             | 0                    | 0                    | 0                    | 2                    | 4                    | 5                    | 8                    | 8                    | 6                    | 6                       |
| <b>Total</b>      | <b>3,420</b>         | <b>3,463</b>         | <b>3,446</b>         | <b>3,467</b>         | <b>3,483</b>         | <b>3,489</b>         | <b>3,510</b>         | <b>3,486</b>         | <b>3,457</b>         | <b>3,462</b>            |

| Customer Type     | Demand 2001(ccf) | Demand 2002(ccf) | Demand 2003(ccf) | Demand 2004(ccf) | Demand 2005(ccf) | Demand 2006(ccf) | Demand 2007(ccf) | Demand 2008(ccf) | Demand 2009(ccf) | Demand 2010(ccf) |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Residential       | 608,346          | 617,079          | 613,516          | 617,725          | 619,135          | 620,075          | 622,660          | 613,026          | 606,212          | 607,024          |
| Multi-Residential | 30,871           | 30,871           | 30,871           | 30,871           | 30,871           | 30,871           | 30,871           | 30,871           | 30,871           | 30,912           |
| Commercial        | 292,963          | 296,215          | 296,143          | 295,500          | 297,645          | 296,787          | 301,076          | 307,080          | 308,367          | 308,780          |
| Industrial        | 151,222          | 151,222          | 151,222          | 161,303          | 161,303          | 161,303          | 161,303          | 161,303          | 161,303          | 162,379          |
| Government        | 108,375          | 107,385          | 105,786          | 106,928          | 109,670          | 112,412          | 109,670          | 112,412          | 111,498          | 111,647          |
| Other             | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
| Unaccounted       | 101,724          | 103,023          | 102,515          | 103,129          | 103,605          | 103,784          | 104,408          | 103,694          | 102,832          | 102,972          |
| <b>Total</b>      | <b>1,293,501</b> | <b>1,305,795</b> | <b>1,300,052</b> | <b>1,315,457</b> | <b>1,322,229</b> | <b>1,325,232</b> | <b>1,329,988</b> | <b>1,328,386</b> | <b>1,321,083</b> | <b>1,323,715</b> |

| Customer Type     | Demand 2001(AF) | Demand 2002(AF) | Demand 2003(AF) | Demand 2004(AF) | Demand 2005(AF) | Demand 2006(AF) | Demand 2007(AF) | Demand 2008(AF) | Demand 2009(AF) | Demand 2010(AF) |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Residential       | 1,397           | 1,417           | 1,408           | 1,418           | 1,421           | 1,424           | 1,429           | 1,407           | 1,392           | 1,394           |
| Multi-Residential | 71              | 71              | 71              | 71              | 71              | 71              | 71              | 71              | 71              | 71              |
| Commercial        | 673             | 680             | 680             | 678             | 683             | 681             | 691             | 705             | 708             | 709             |
| Industrial        | 347             | 347             | 347             | 370             | 370             | 370             | 370             | 370             | 370             | 373             |
| Government        | 249             | 247             | 243             | 245             | 252             | 258             | 252             | 258             | 256             | 256             |
| Other             | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               |
| Unaccounted       | 234             | 237             | 235             | 237             | 238             | 238             | 240             | 238             | 236             | 236             |
| <b>Total</b>      | <b>2,969</b>    | <b>2,998</b>    | <b>2,985</b>    | <b>3,020</b>    | <b>3,035</b>    | <b>3,042</b>    | <b>3,053</b>    | <b>3,050</b>    | <b>3,033</b>    | <b>3,039</b>    |

# California Water Service Company - Oroville District

## Water Supply and Demand Analysis and Projections

### 2010's Projections

Scenario #1: Based on Maintaining Growth at the  10-Year  5-Year Average Annual Growth and  Low  Average  High Demand per Service for each Customer Class.

| Customer Type     | Projected Services 2011 | Projected Services 2012 | Projected Services 2013 | Projected Services 2014 | Projected Services 2015 | Projected Services 2016 | Projected Services 2017 | Projected Services 2018 | Projected Services 2019 | Projected Services 2020 |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Residential       | 2,587                   | 2,590                   | 2,594                   | 2,597                   | 2,601                   | 2,604                   | 2,608                   | 2,611                   | 2,615                   | 2,618                   |
| Multi-Residential | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      |
| Commercial        | 721                     | 722                     | 723                     | 724                     | 725                     | 726                     | 727                     | 728                     | 729                     | 730                     |
| Industrial        | 16                      | 16                      | 16                      | 17                      | 17                      | 17                      | 17                      | 17                      | 17                      | 17                      |
| Government        | 122                     | 122                     | 123                     | 123                     | 123                     | 123                     | 123                     | 123                     | 124                     | 124                     |
| Other             | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       |
| <b>Total</b>      | <b>3,466</b>            | <b>3,471</b>            | <b>3,476</b>            | <b>3,481</b>            | <b>3,485</b>            | <b>3,490</b>            | <b>3,495</b>            | <b>3,500</b>            | <b>3,504</b>            | <b>3,509</b>            |

| Customer Type     | Demand 2011(ccf) | Demand 2012(ccf) | Demand 2013(ccf) | Demand 2014(ccf) | Demand 2015(ccf) | Demand 2016(ccf) | Demand 2017(ccf) | Demand 2018(ccf) | Demand 2019(ccf) | Demand 2020(ccf) |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Residential       | 607,838          | 608,652          | 609,468          | 610,285          | 611,102          | 611,921          | 612,741          | 613,562          | 614,384          | 615,208          |
| Multi-Residential | 30,954           | 30,995           | 31,037           | 31,078           | 31,120           | 31,162           | 31,203           | 31,245           | 31,287           | 31,329           |
| Commercial        | 309,194          | 309,608          | 310,023          | 310,438          | 310,854          | 311,271          | 311,688          | 312,106          | 312,524          | 312,943          |
| Industrial        | 163,462          | 164,553          | 165,650          | 166,755          | 167,867          | 168,987          | 170,114          | 171,249          | 172,391          | 173,541          |
| Government        | 111,797          | 111,947          | 112,097          | 112,247          | 112,397          | 112,548          | 112,699          | 112,850          | 113,001          | 113,152          |
| Other             | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
| Unaccounted       | 103,113          | 103,253          | 103,394          | 103,536          | 103,677          | 103,818          | 103,960          | 104,102          | 104,244          | 104,387          |
| <b>Total</b>      | <b>1,326,357</b> | <b>1,329,008</b> | <b>1,331,669</b> | <b>1,334,339</b> | <b>1,337,018</b> | <b>1,339,707</b> | <b>1,342,406</b> | <b>1,345,114</b> | <b>1,347,832</b> | <b>1,350,559</b> |

| Customer Type     | Demand 2011(AF) | Demand 2012(AF) | Demand 2013(AF) | Demand 2014(AF) | Demand 2015(AF) | Demand 2016(AF) | Demand 2017(AF) | Demand 2018(AF) | Demand 2019(AF) | Demand 2020(AF) |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Residential       | 1,395           | 1,397           | 1,399           | 1,401           | 1,403           | 1,405           | 1,407           | 1,409           | 1,410           | 1,412           |
| Multi-Residential | 71              | 71              | 71              | 71              | 71              | 72              | 72              | 72              | 72              | 72              |
| Commercial        | 710             | 711             | 712             | 713             | 714             | 715             | 716             | 717             | 717             | 718             |
| Industrial        | 375             | 378             | 380             | 383             | 385             | 388             | 391             | 393             | 396             | 398             |
| Government        | 257             | 257             | 257             | 258             | 258             | 258             | 259             | 259             | 259             | 260             |
| Other             | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               |
| Unaccounted       | 237             | 237             | 237             | 238             | 238             | 238             | 239             | 239             | 239             | 240             |
| <b>Total</b>      | <b>3,045</b>    | <b>3,051</b>    | <b>3,057</b>    | <b>3,063</b>    | <b>3,069</b>    | <b>3,076</b>    | <b>3,082</b>    | <b>3,088</b>    | <b>3,094</b>    | <b>3,100</b>    |
|                   | 2,808           | 2,814           | 2,820           | 2,826           | 2,831           | 2,837           | 2,843           | 2,849           | 2,855           | 2,861           |

# California Water Service Company - Oroville District

## Water Supply and Demand Analysis and Projections

Scenario #1: Based on Maintaining Growth at the

- 10-Year
- 5-Year

Average Annual Growth and

- Low
- Average
- High

### 2020's Projections

Demand per Service for each Customer Class.

| Customer Type     | Projected Services 2021 | Projected Services 2022 | Projected Services 2023 | Projected Services 2024 | Projected Services 2025 | Projected Services 2026 | Projected Services 2027 | Projected Services 2028 | Projected Services 2029 | Projected Services 2030 |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Residential       | 2,622                   | 2,625                   | 2,629                   | 2,632                   | 2,636                   | 2,639                   | 2,643                   | 2,646                   | 2,650                   | 2,654                   |
| Multi-Residential | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      |
| Commercial        | 731                     | 732                     | 733                     | 734                     | 735                     | 736                     | 737                     | 738                     | 739                     | 740                     |
| Industrial        | 17                      | 17                      | 18                      | 18                      | 18                      | 18                      | 18                      | 18                      | 18                      | 18                      |
| Government        | 124                     | 124                     | 124                     | 124                     | 125                     | 125                     | 125                     | 125                     | 125                     | 125                     |
| Other             | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       |
| <b>Total</b>      | <b>3,514</b>            | <b>3,519</b>            | <b>3,524</b>            | <b>3,528</b>            | <b>3,533</b>            | <b>3,538</b>            | <b>3,543</b>            | <b>3,548</b>            | <b>3,553</b>            | <b>3,558</b>            |

| Customer Type     | Demand 2021(ccf) | Demand 2022(ccf) | Demand 2023(ccf) | Demand 2024(ccf) | Demand 2025(ccf) | Demand 2026(ccf) | Demand 2027(ccf) | Demand 2028(ccf) | Demand 2029(ccf) | Demand 2030(ccf) |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Residential       | 616,032          | 616,858          | 617,684          | 618,512          | 619,341          | 620,171          | 621,002          | 621,834          | 622,667          | 623,501          |
| Multi-Residential | 31,371           | 31,413           | 31,455           | 31,497           | 31,540           | 31,582           | 31,624           | 31,666           | 31,709           | 31,751           |
| Commercial        | 313,362          | 313,782          | 314,202          | 314,623          | 315,045          | 315,467          | 315,890          | 316,313          | 316,737          | 317,161          |
| Industrial        | 174,698          | 175,864          | 177,037          | 178,217          | 179,406          | 180,603          | 181,807          | 183,020          | 184,241          | 185,470          |
| Government        | 113,304          | 113,456          | 113,608          | 113,760          | 113,913          | 114,065          | 114,218          | 114,371          | 114,524          | 114,678          |
| Other             | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
| Unaccounted       | 104,529          | 104,672          | 104,815          | 104,959          | 105,102          | 105,246          | 105,389          | 105,534          | 105,678          | 105,822          |
| <b>Total</b>      | <b>1,353,297</b> | <b>1,356,044</b> | <b>1,358,801</b> | <b>1,361,568</b> | <b>1,364,346</b> | <b>1,367,133</b> | <b>1,369,930</b> | <b>1,372,738</b> | <b>1,375,556</b> | <b>1,378,384</b> |

| Customer Type     | Demand 2021(AF) | Demand 2022(AF) | Demand 2023(AF) | Demand 2024(AF) | Demand 2025(AF) | Demand 2026(AF) | Demand 2027(AF) | Demand 2028(AF) | Demand 2029(AF) | Demand 2030(AF) |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Residential       | 1,414           | 1,416           | 1,418           | 1,420           | 1,422           | 1,424           | 1,426           | 1,428           | 1,429           | 1,431           |
| Multi-Residential | 72              | 72              | 72              | 72              | 72              | 73              | 73              | 73              | 73              | 73              |
| Commercial        | 719             | 720             | 721             | 722             | 723             | 724             | 725             | 726             | 727             | 728             |
| Industrial        | 401             | 404             | 406             | 409             | 412             | 415             | 417             | 420             | 423             | 426             |
| Government        | 260             | 260             | 261             | 261             | 262             | 262             | 262             | 263             | 263             | 263             |
| Other             | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               |
| Unaccounted       | 240             | 240             | 241             | 241             | 241             | 242             | 242             | 242             | 243             | 243             |
| <b>Total</b>      | <b>3,107</b>    | <b>3,113</b>    | <b>3,119</b>    | <b>3,126</b>    | <b>3,132</b>    | <b>3,139</b>    | <b>3,145</b>    | <b>3,151</b>    | <b>3,158</b>    | <b>3,164</b>    |

# California Water Service Company - Oroville District

## Water Supply and Demand Analysis and Projections

### 2030's Projections

Scenario #1: Based on Maintaining Growth at the  10-Year Average Annual Growth and  5-Year

Low Demand per Service for each Customer Class.  
 Average  
 High

| Customer Type     | Projected Services 2031 | Projected Services 2032 | Projected Services 2033 | Projected Services 2034 | Projected Services 2035 | Projected Services 2036 | Projected Services 2037 | Projected Services 2038 | Projected Services 2039 | Projected Services 2040 |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Residential       | 2,657                   | 2,661                   | 2,664                   | 2,668                   | 2,671                   | 2,675                   | 2,679                   | 2,682                   | 2,686                   | 2,689                   |
| Multi-Residential | 14                      | 14                      | 14                      | 14                      | 14                      | 15                      | 15                      | 15                      | 15                      | 15                      |
| Commercial        | 740                     | 741                     | 742                     | 743                     | 744                     | 745                     | 746                     | 747                     | 748                     | 749                     |
| Industrial        | 19                      | 19                      | 19                      | 19                      | 19                      | 19                      | 19                      | 19                      | 20                      | 20                      |
| Government        | 126                     | 126                     | 126                     | 126                     | 126                     | 126                     | 127                     | 127                     | 127                     | 127                     |
| Other             | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       |
| <b>Total</b>      | <b>3,562</b>            | <b>3,567</b>            | <b>3,572</b>            | <b>3,577</b>            | <b>3,582</b>            | <b>3,587</b>            | <b>3,592</b>            | <b>3,597</b>            | <b>3,602</b>            | <b>3,607</b>            |

| Customer Type     | Demand 2031(ccf) | Demand 2032(ccf) | Demand 2033(ccf) | Demand 2034(ccf) | Demand 2035(ccf) | Demand 2036(ccf) | Demand 2037(ccf) | Demand 2038(ccf) | Demand 2039(ccf) | Demand 2040(ccf) |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Residential       | 624,337          | 625,173          | 626,011          | 626,850          | 627,690          | 628,531          | 629,373          | 630,217          | 631,061          | 631,907          |
| Multi-Residential | 31,794           | 31,837           | 31,879           | 31,922           | 31,965           | 32,008           | 32,050           | 32,093           | 32,136           | 32,179           |
| Commercial        | 317,586          | 318,012          | 318,438          | 318,865          | 319,292          | 319,720          | 320,148          | 320,577          | 321,007          | 321,437          |
| Industrial        | 186,707          | 187,952          | 189,206          | 190,468          | 191,738          | 193,017          | 194,305          | 195,601          | 196,905          | 198,219          |
| Government        | 114,831          | 114,985          | 115,139          | 115,294          | 115,448          | 115,603          | 115,758          | 115,913          | 116,068          | 116,224          |
| Other             | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
| Unaccounted       | 105,967          | 106,112          | 106,257          | 106,403          | 106,548          | 106,694          | 106,840          | 106,986          | 107,133          | 107,279          |
| <b>Total</b>      | <b>1,381,222</b> | <b>1,384,071</b> | <b>1,386,931</b> | <b>1,389,801</b> | <b>1,392,681</b> | <b>1,395,572</b> | <b>1,398,474</b> | <b>1,401,387</b> | <b>1,404,310</b> | <b>1,407,245</b> |

| Customer Type     | Demand 2031(AF) | Demand 2032(AF) | Demand 2033(AF) | Demand 2034(AF) | Demand 2035(AF) | Demand 2036(AF) | Demand 2037(AF) | Demand 2038(AF) | Demand 2039(AF) | Demand 2040(AF) |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Residential       | 1,433           | 1,435           | 1,437           | 1,439           | 1,441           | 1,443           | 1,445           | 1,447           | 1,449           | 1,451           |
| Multi-Residential | 73              | 73              | 73              | 73              | 73              | 73              | 74              | 74              | 74              | 74              |
| Commercial        | 729             | 730             | 731             | 732             | 733             | 734             | 735             | 736             | 737             | 738             |
| Industrial        | 429             | 431             | 434             | 437             | 440             | 443             | 446             | 449             | 452             | 455             |
| Government        | 264             | 264             | 264             | 265             | 265             | 265             | 266             | 266             | 266             | 267             |
| Other             | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               |
| Unaccounted       | 243             | 244             | 244             | 244             | 245             | 245             | 245             | 246             | 246             | 246             |
| <b>Total</b>      | <b>3,171</b>    | <b>3,177</b>    | <b>3,184</b>    | <b>3,191</b>    | <b>3,197</b>    | <b>3,204</b>    | <b>3,210</b>    | <b>3,217</b>    | <b>3,224</b>    | <b>3,231</b>    |

## California Water Service Company - Oroville District

### Water Supply and Demand Analysis and Projections

Worksheet 11

Scenario #2: Based on Maintaining Growth at the  10-Year  5-Year Average Annual Growth and  Low  Average  High Demand per Service for each Customer Class.

| Summary of Historical Growth Rate from Worksheet 2 |                                       |                                    |                             |
|----------------------------------------------------|---------------------------------------|------------------------------------|-----------------------------|
| Customer Type                                      | 10 Yr. Avg.<br>Historical Growth Rate | Individual Growth Rate<br>Selected | Notes                       |
| Single Family Residential                          | -0.042%                               | 0.134%                             | Overall growth rate used    |
| Multi Family Residential                           | 0.000%                                | 0.134%                             | Historical growth rate used |
| Commercial                                         | 0.624%                                | 0.134%                             | Historical growth rate used |
| Industrial                                         | 0.667%                                | 0.667%                             | Overall growth rate used    |
| Government                                         | 0.609%                                | 0.134%                             | Historical growth rate used |
| Other                                              | 6.000%                                | 0.134%                             | Overall growth rate used    |
| Overall                                            | 0.134%                                | 0.141%                             |                             |

| Summary of Average Demand per Service from Worksheets 5 and 6 |                   |           |        |            |            |            |                |                            |                          |
|---------------------------------------------------------------|-------------------|-----------|--------|------------|------------|------------|----------------|----------------------------|--------------------------|
| Demand/Serv.<br>Units                                         | Multi-Residential |           |        | Commercial | Industrial | Government | Total<br>Other | Unaccounted<br>Total Serv. | Combined<br>Demand/Serv. |
|                                                               | Residential       | (service) | (unit) |            |            |            |                |                            |                          |
| Gal/Service/Yr                                                | 186,837           | 2,299,627 | 71,519 | 386,281    | 12,516,453 | 841,910    | 208,569        | 27,277                     | 340,964                  |
| AF/Service/Yr                                                 | 0.573             | 7.057     | 0.219  | 1.185      | 38.412     | 2.584      | 0.640          | 0.084                      | 1.046                    |
| Gal/Service/Day                                               | 512               | 6,300     | 196    | 1,058      | 34,292     | 2,307      | 571            | 75                         | 934                      |



## California Water Service Company - Oroville District

### Water Supply and Demand Analysis and Projections

Worksheet 11

#### 30-year projection Summary

Scenario #2: Based on Maintaining Growth at the

- 10-Year  
 5-Year

Average Annual Growth and

- Low  
 Average  
 High

Demand per Service for each Customer Class.

| Customer Type             | Projected Services<br>2010 | Projected Services<br>2015 | Projected Services<br>2020 | Projected Services<br>2025 | Projected Services<br>2030 | Projected Services<br>2035 | Projected Services<br>2040 | Services projected to be added<br>from 2010 - 2040 |
|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------------------------------|
| Single Family Residential | 2,583                      | 2,601                      | 2,618                      | 2,636                      | 2,654                      | 2,671                      | 2,689                      | 106                                                |
| Multi Family Residential  | 14                         | 14                         | 14                         | 14                         | 14                         | 14                         | 15                         | 1                                                  |
| Commercial                | 720                        | 725                        | 730                        | 735                        | 740                        | 744                        | 749                        | 30                                                 |
| Industrial                | 16                         | 17                         | 17                         | 18                         | 18                         | 19                         | 20                         | 4                                                  |
| Government                | 122                        | 123                        | 124                        | 125                        | 125                        | 126                        | 127                        | 5                                                  |
| Other                     | 6                          | 6                          | 6                          | 6                          | 6                          | 6                          | 6                          | 0                                                  |
| <b>Total</b>              | <b>3,462</b>               | <b>3,485</b>               | <b>3,509</b>               | <b>3,533</b>               | <b>3,558</b>               | <b>3,582</b>               | <b>3,607</b>               | <b>145</b>                                         |

| Customer Type             | Projected Demand<br>2010 (ccf) | Projected Demand<br>2015 (ccf) | Projected Demand<br>2020 (ccf) | Projected Demand<br>2025 (ccf) | Projected Demand<br>2030 (ccf) | Projected Demand<br>2035 (ccf) | Projected Demand<br>2040 (ccf) | Projected demand to be added<br>from<br>2010 - 2040 (ccf) |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------------------------------------|
| Single Family Residential | 645,253                        | 649,588                        | 653,952                        | 658,345                        | 662,768                        | 667,220                        | 671,702                        | 26,450                                                    |
| Multi Family Residential  | 43,096                         | 43,385                         | 43,677                         | 43,970                         | 44,265                         | 44,563                         | 44,862                         | 1,767                                                     |
| Commercial                | 371,775                        | 374,273                        | 376,787                        | 379,318                        | 381,867                        | 384,432                        | 387,015                        | 15,239                                                    |
| Industrial                | 269,498                        | 278,606                        | 288,022                        | 297,757                        | 307,820                        | 318,224                        | 328,979                        | 59,482                                                    |
| Government                | 137,491                        | 138,414                        | 139,344                        | 140,280                        | 141,223                        | 142,172                        | 143,127                        | 5,636                                                     |
| Other                     | 1,675                          | 1,686                          | 1,698                          | 1,709                          | 1,721                          | 1,732                          | 1,744                          | 69                                                        |
| Unaccounted               | 126,228                        | 127,092                        | 127,963                        | 128,839                        | 129,722                        | 130,612                        | 131,508                        | 5,280                                                     |
| <b>Total</b>              | <b>1,595,016</b>               | <b>1,613,045</b>               | <b>1,631,442</b>               | <b>1,650,219</b>               | <b>1,669,386</b>               | <b>1,688,955</b>               | <b>1,708,937</b>               | <b>113,922</b>                                            |

| Customer Type             | Projected Demand<br>2010 (AF) | Projected Demand<br>2015 (AF) | Projected Demand<br>2020 (AF) | Projected Demand<br>2025 (AF) | Projected Demand<br>2030 (AF) | Projected Demand<br>2035 (AF) | Projected Demand<br>2040 (AF) | Projected demand to be added<br>from<br>2010 - 2040 (AF) |
|---------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------------------------------------------|
| Single Family Residential | 1,481                         | 1,491                         | 1,501                         | 1,511                         | 1,522                         | 1,532                         | 1,542                         | 61                                                       |
| Multi Family Residential  | 99                            | 100                           | 100                           | 101                           | 102                           | 102                           | 103                           | 4                                                        |
| Commercial                | 853                           | 859                           | 865                           | 871                           | 877                           | 883                           | 888                           | 35                                                       |
| Industrial                | 619                           | 640                           | 661                           | 684                           | 707                           | 731                           | 755                           | 137                                                      |
| Government                | 316                           | 318                           | 320                           | 322                           | 324                           | 326                           | 329                           | 13                                                       |
| Other                     | 4                             | 4                             | 4                             | 4                             | 4                             | 4                             | 4                             | 0                                                        |
| Unaccounted               | 290                           | 292                           | 294                           | 296                           | 298                           | 300                           | 302                           | 12                                                       |
| <b>Total</b>              | <b>3,662</b>                  | <b>3,703</b>                  | <b>3,745</b>                  | <b>3,788</b>                  | <b>3,832</b>                  | <b>3,877</b>                  | <b>3,923</b>                  | <b>262</b>                                               |

**California Water Service Company - Oroville District  
Water Supply and Demand Analysis and Projections**

Scenario #2: Based on Maintaining Growth at the

- 10-Year
- 5-Year

Average Annual Growth and

- Low
- Average
- High

**2000's Projections**

Demand per Service for each Customer Class.

| Customer Type     | Actual Services 2001 | Actual Services 2002 | Actual Services 2003 | Actual Services 2004 | Actual Services 2005 | Actual Services 2006 | Actual Services 2007 | Actual Services 2008 | Actual Services 2009 | Projected Services 2010 |
|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|
| Residential       | 2,589                | 2,626                | 2,611                | 2,629                | 2,635                | 2,639                | 2,650                | 2,609                | 2,580                | 2,583                   |
| Multi-Residential | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                      |
| Commercial        | 683                  | 691                  | 691                  | 689                  | 694                  | 692                  | 702                  | 716                  | 719                  | 720                     |
| Industrial        | 15                   | 15                   | 15                   | 16                   | 16                   | 16                   | 16                   | 16                   | 16                   | 16                      |
| Government        | 119                  | 118                  | 116                  | 117                  | 120                  | 123                  | 120                  | 123                  | 122                  | 122                     |
| Other             | 0                    | 0                    | 0                    | 2                    | 4                    | 5                    | 8                    | 8                    | 6                    | 6                       |
| <b>Total</b>      | <b>3,420</b>         | <b>3,463</b>         | <b>3,446</b>         | <b>3,467</b>         | <b>3,483</b>         | <b>3,489</b>         | <b>3,510</b>         | <b>3,486</b>         | <b>3,457</b>         | <b>3,462</b>            |

| Customer Type     | Demand 2001(ccf) | Demand 2002(ccf) | Demand 2003(ccf) | Demand 2004(ccf) | Demand 2005(ccf) | Demand 2006(ccf) | Demand 2007(ccf) | Demand 2008(ccf) | Demand 2009(ccf) | Demand 2010(ccf) |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Residential       | 646,658          | 655,941          | 652,153          | 656,628          | 658,126          | 659,125          | 661,873          | 651,633          | 644,389          | 645,253          |
| Multi-Residential | 43,038           | 43,038           | 43,038           | 43,038           | 43,038           | 43,038           | 43,038           | 43,038           | 43,038           | 43,096           |
| Commercial        | 352,731          | 356,647          | 356,561          | 355,786          | 358,368          | 357,335          | 362,499          | 369,729          | 371,278          | 371,775          |
| Industrial        | 250,980          | 250,980          | 250,980          | 267,712          | 267,712          | 267,712          | 267,712          | 267,712          | 267,712          | 269,498          |
| Government        | 133,461          | 132,242          | 130,273          | 131,679          | 135,056          | 138,432          | 135,056          | 138,432          | 137,307          | 137,491          |
| Other             | 0                | 0                | 0                | 558              | 1,115            | 1,394            | 2,231            | 2,231            | 1,673            | 1,675            |
| Unaccounted       | 124,698          | 126,290          | 125,667          | 126,421          | 127,004          | 127,223          | 127,989          | 127,114          | 126,056          | 126,228          |
| <b>Total</b>      | <b>1,551,567</b> | <b>1,565,138</b> | <b>1,558,672</b> | <b>1,581,822</b> | <b>1,590,420</b> | <b>1,594,260</b> | <b>1,600,397</b> | <b>1,599,888</b> | <b>1,591,453</b> | <b>1,595,016</b> |

| Customer Type     | Demand 2001(AF) | Demand 2002(AF) | Demand 2003(AF) | Demand 2004(AF) | Demand 2005(AF) | Demand 2006(AF) | Demand 2007(AF) | Demand 2008(AF) | Demand 2009(AF) | Demand 2010(AF) |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Residential       | 1,485           | 1,506           | 1,497           | 1,507           | 1,511           | 1,513           | 1,519           | 1,496           | 1,479           | 1,481           |
| Multi-Residential | 99              | 99              | 99              | 99              | 99              | 99              | 99              | 99              | 99              | 99              |
| Commercial        | 810             | 819             | 819             | 817             | 823             | 820             | 832             | 849             | 852             | 853             |
| Industrial        | 576             | 576             | 576             | 615             | 615             | 615             | 615             | 615             | 615             | 619             |
| Government        | 306             | 304             | 299             | 302             | 310             | 318             | 310             | 318             | 315             | 316             |
| Other             | 0               | 0               | 0               | 1               | 3               | 3               | 5               | 5               | 4               | 4               |
| Unaccounted       | 286             | 290             | 288             | 290             | 292             | 292             | 294             | 292             | 289             | 290             |
| <b>Total</b>      | <b>3,562</b>    | <b>3,593</b>    | <b>3,578</b>    | <b>3,631</b>    | <b>3,651</b>    | <b>3,660</b>    | <b>3,674</b>    | <b>3,673</b>    | <b>3,653</b>    | <b>3,662</b>    |

## California Water Service Company - Oroville District

### Water Supply and Demand Analysis and Projections

Worksheet 11

Scenario #2: Based on Maintaining Growth at the

- 10-Year  
 5-Year

Average Annual Growth and

 Low Average High**2010's Projections**

Demand per Service for each Customer Class.

| Customer Type     | Projected Services 2011 | Projected Services 2012 | Projected Services 2013 | Projected Services 2014 | Projected Services 2015 | Projected Services 2016 | Projected Services 2017 | Projected Services 2018 | Projected Services 2019 | Projected Services 2020 |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Residential       | 2,587                   | 2,590                   | 2,594                   | 2,597                   | 2,601                   | 2,604                   | 2,608                   | 2,611                   | 2,615                   | 2,618                   |
| Multi-Residential | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      |
| Commercial        | 721                     | 722                     | 723                     | 724                     | 725                     | 726                     | 727                     | 728                     | 729                     | 730                     |
| Industrial        | 16                      | 16                      | 16                      | 17                      | 17                      | 17                      | 17                      | 17                      | 17                      | 17                      |
| Government        | 122                     | 122                     | 123                     | 123                     | 123                     | 123                     | 123                     | 123                     | 124                     | 124                     |
| Other             | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       |
| <b>Total</b>      | <b>3,466</b>            | <b>3,471</b>            | <b>3,476</b>            | <b>3,481</b>            | <b>3,485</b>            | <b>3,490</b>            | <b>3,495</b>            | <b>3,500</b>            | <b>3,504</b>            | <b>3,509</b>            |

| Customer Type     | Demand 2011(ccf) | Demand 2012(ccf) | Demand 2013(ccf) | Demand 2014(ccf) | Demand 2015(ccf) | Demand 2016(ccf) | Demand 2017(ccf) | Demand 2018(ccf) | Demand 2019(ccf) | Demand 2020(ccf) |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Residential       | 646,118          | 646,983          | 647,850          | 648,718          | 649,588          | 650,458          | 651,330          | 652,203          | 653,076          | 653,952          |
| Multi-Residential | 43,153           | 43,211           | 43,269           | 43,327           | 43,385           | 43,443           | 43,502           | 43,560           | 43,618           | 43,677           |
| Commercial        | 372,273          | 372,772          | 373,272          | 373,772          | 374,273          | 374,774          | 375,277          | 375,779          | 376,283          | 376,787          |
| Industrial        | 271,295          | 273,105          | 274,926          | 276,760          | 278,606          | 280,464          | 282,335          | 284,218          | 286,114          | 288,022          |
| Government        | 137,675          | 137,859          | 138,044          | 138,229          | 138,414          | 138,600          | 138,786          | 138,972          | 139,158          | 139,344          |
| Other             | 1,677            | 1,680            | 1,682            | 1,684            | 1,686            | 1,689            | 1,691            | 1,693            | 1,695            | 1,698            |
| Unaccounted       | 126,401          | 126,573          | 126,746          | 126,919          | 127,092          | 127,266          | 127,440          | 127,614          | 127,788          | 127,963          |
| <b>Total</b>      | <b>1,598,593</b> | <b>1,602,184</b> | <b>1,605,790</b> | <b>1,609,410</b> | <b>1,613,045</b> | <b>1,616,695</b> | <b>1,620,359</b> | <b>1,624,038</b> | <b>1,627,733</b> | <b>1,631,442</b> |

| Customer Type     | Demand 2011(AF) | Demand 2012(AF) | Demand 2013(AF) | Demand 2014(AF) | Demand 2015(AF) | Demand 2016(AF) | Demand 2017(AF) | Demand 2018(AF) | Demand 2019(AF) | Demand 2020(AF) |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Residential       | 1,483           | 1,485           | 1,487           | 1,489           | 1,491           | 1,493           | 1,495           | 1,497           | 1,499           | 1,501           |
| Multi-Residential | 99              | 99              | 99              | 99              | 100             | 100             | 100             | 100             | 100             | 100             |
| Commercial        | 855             | 856             | 857             | 858             | 859             | 860             | 862             | 863             | 864             | 865             |
| Industrial        | 623             | 627             | 631             | 635             | 640             | 644             | 648             | 652             | 657             | 661             |
| Government        | 316             | 316             | 317             | 317             | 318             | 318             | 319             | 319             | 319             | 320             |
| Other             | 4               | 4               | 4               | 4               | 4               | 4               | 4               | 4               | 4               | 4               |
| Unaccounted       | 290             | 291             | 291             | 291             | 292             | 292             | 293             | 293             | 293             | 294             |
| <b>Total</b>      | <b>3,670</b>    | <b>3,678</b>    | <b>3,686</b>    | <b>3,695</b>    | <b>3,703</b>    | <b>3,711</b>    | <b>3,720</b>    | <b>3,728</b>    | <b>3,737</b>    | <b>3,745</b>    |

# California Water Service Company - Oroville District

## Water Supply and Demand Analysis and Projections

Scenario #2: Based on Maintaining Growth at the

- 10-Year
- 5-Year

Average Annual Growth and

- Low
- Average
- High

### 2020's Projections

Demand per Service for each Customer Class.

| Customer Type     | Projected Services 2021 | Projected Services 2022 | Projected Services 2023 | Projected Services 2024 | Projected Services 2025 | Projected Services 2026 | Projected Services 2027 | Projected Services 2028 | Projected Services 2029 | Projected Services 2030 |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Residential       | 2,622                   | 2,625                   | 2,629                   | 2,632                   | 2,636                   | 2,639                   | 2,643                   | 2,646                   | 2,650                   | 2,654                   |
| Multi-Residential | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      |
| Commercial        | 731                     | 732                     | 733                     | 734                     | 735                     | 736                     | 737                     | 738                     | 739                     | 740                     |
| Industrial        | 17                      | 17                      | 18                      | 18                      | 18                      | 18                      | 18                      | 18                      | 18                      | 18                      |
| Government        | 124                     | 124                     | 124                     | 124                     | 125                     | 125                     | 125                     | 125                     | 125                     | 125                     |
| Other             | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       |
| <b>Total</b>      | <b>3,514</b>            | <b>3,519</b>            | <b>3,524</b>            | <b>3,528</b>            | <b>3,533</b>            | <b>3,538</b>            | <b>3,543</b>            | <b>3,548</b>            | <b>3,553</b>            | <b>3,558</b>            |

| Customer Type     | Demand 2021(ccf) | Demand 2022(ccf) | Demand 2023(ccf) | Demand 2024(ccf) | Demand 2025(ccf) | Demand 2026(ccf) | Demand 2027(ccf) | Demand 2028(ccf) | Demand 2029(ccf) | Demand 2030(ccf) |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Residential       | 654,828          | 655,705          | 656,584          | 657,464          | 658,345          | 659,227          | 660,110          | 660,995          | 661,881          | 662,768          |
| Multi-Residential | 43,735           | 43,794           | 43,852           | 43,911           | 43,970           | 44,029           | 44,088           | 44,147           | 44,206           | 44,265           |
| Commercial        | 377,292          | 377,798          | 378,304          | 378,811          | 379,318          | 379,827          | 380,336          | 380,845          | 381,356          | 381,867          |
| Industrial        | 289,943          | 291,877          | 293,824          | 295,784          | 297,757          | 299,743          | 301,742          | 303,755          | 305,781          | 307,820          |
| Government        | 139,531          | 139,718          | 139,905          | 140,093          | 140,280          | 140,468          | 140,657          | 140,845          | 141,034          | 141,223          |
| Other             | 1,700            | 1,702            | 1,705            | 1,707            | 1,709            | 1,711            | 1,714            | 1,716            | 1,718            | 1,721            |
| Unaccounted       | 128,137          | 128,312          | 128,488          | 128,663          | 128,839          | 129,015          | 129,192          | 129,368          | 129,545          | 129,722          |
| <b>Total</b>      | <b>1,635,167</b> | <b>1,638,907</b> | <b>1,642,662</b> | <b>1,646,433</b> | <b>1,650,219</b> | <b>1,654,021</b> | <b>1,657,838</b> | <b>1,661,672</b> | <b>1,665,521</b> | <b>1,669,386</b> |

| Customer Type     | Demand 2021(AF) | Demand 2022(AF) | Demand 2023(AF) | Demand 2024(AF) | Demand 2025(AF) | Demand 2026(AF) | Demand 2027(AF) | Demand 2028(AF) | Demand 2029(AF) | Demand 2030(AF) |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Residential       | 1,503           | 1,505           | 1,507           | 1,509           | 1,511           | 1,513           | 1,515           | 1,517           | 1,519           | 1,522           |
| Multi-Residential | 100             | 101             | 101             | 101             | 101             | 101             | 101             | 101             | 101             | 102             |
| Commercial        | 866             | 867             | 868             | 870             | 871             | 872             | 873             | 874             | 875             | 877             |
| Industrial        | 666             | 670             | 675             | 679             | 684             | 688             | 693             | 697             | 702             | 707             |
| Government        | 320             | 321             | 321             | 322             | 322             | 322             | 323             | 323             | 324             | 324             |
| Other             | 4               | 4               | 4               | 4               | 4               | 4               | 4               | 4               | 4               | 4               |
| Unaccounted       | 294             | 295             | 295             | 295             | 296             | 296             | 297             | 297             | 297             | 298             |
| <b>Total</b>      | <b>3,754</b>    | <b>3,762</b>    | <b>3,771</b>    | <b>3,780</b>    | <b>3,788</b>    | <b>3,797</b>    | <b>3,806</b>    | <b>3,815</b>    | <b>3,824</b>    | <b>3,832</b>    |

**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**

Scenario #2: Based on Maintaining Growth at the

- 10-Year
- 5-Year

Average Annual Growth and

- Low
- Average
- High

**2030's Projections**

Demand per Service for each Customer Class.

| Customer Type     | Projected Services 2031 | Projected Services 2032 | Projected Services 2033 | Projected Services 2034 | Projected Services 2035 | Projected Services 2036 | Projected Services 2037 | Projected Services 2038 | Projected Services 2039 | Projected Services 2040 |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Residential       | 2,657                   | 2,661                   | 2,664                   | 2,668                   | 2,671                   | 2,675                   | 2,679                   | 2,682                   | 2,686                   | 2,689                   |
| Multi-Residential | 14                      | 14                      | 14                      | 14                      | 14                      | 15                      | 15                      | 15                      | 15                      | 15                      |
| Commercial        | 740                     | 741                     | 742                     | 743                     | 744                     | 745                     | 746                     | 747                     | 748                     | 749                     |
| Industrial        | 19                      | 19                      | 19                      | 19                      | 19                      | 19                      | 19                      | 19                      | 20                      | 20                      |
| Government        | 126                     | 126                     | 126                     | 126                     | 126                     | 126                     | 127                     | 127                     | 127                     | 127                     |
| Other             | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       |
| <b>Total</b>      | <b>3,562</b>            | <b>3,567</b>            | <b>3,572</b>            | <b>3,577</b>            | <b>3,582</b>            | <b>3,587</b>            | <b>3,592</b>            | <b>3,597</b>            | <b>3,602</b>            | <b>3,607</b>            |

| Customer Type     | Demand 2031(ccf) | Demand 2032(ccf) | Demand 2033(ccf) | Demand 2034(ccf) | Demand 2035(ccf) | Demand 2036(ccf) | Demand 2037(ccf) | Demand 2038(ccf) | Demand 2039(ccf) | Demand 2040(ccf) |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Residential       | 663,656          | 664,545          | 665,435          | 666,327          | 667,220          | 668,114          | 669,009          | 669,906          | 670,804          | 671,702          |
| Multi-Residential | 44,325           | 44,384           | 44,444           | 44,503           | 44,563           | 44,623           | 44,682           | 44,742           | 44,802           | 44,862           |
| Commercial        | 382,378          | 382,891          | 383,404          | 383,918          | 384,432          | 384,947          | 385,463          | 385,980          | 386,497          | 387,015          |
| Industrial        | 309,874          | 311,940          | 314,021          | 316,116          | 318,224          | 320,347          | 322,483          | 324,634          | 326,800          | 328,979          |
| Government        | 141,412          | 141,602          | 141,791          | 141,981          | 142,172          | 142,362          | 142,553          | 142,744          | 142,935          | 143,127          |
| Other             | 1,723            | 1,725            | 1,728            | 1,730            | 1,732            | 1,734            | 1,737            | 1,739            | 1,741            | 1,744            |
| Unaccounted       | 129,900          | 130,077          | 130,255          | 130,434          | 130,612          | 130,791          | 130,970          | 131,149          | 131,328          | 131,508          |
| <b>Total</b>      | <b>1,673,267</b> | <b>1,677,164</b> | <b>1,681,078</b> | <b>1,685,008</b> | <b>1,688,955</b> | <b>1,692,918</b> | <b>1,696,897</b> | <b>1,700,894</b> | <b>1,704,907</b> | <b>1,708,937</b> |

| Customer Type     | Demand 2031(AF) | Demand 2032(AF) | Demand 2033(AF) | Demand 2034(AF) | Demand 2035(AF) | Demand 2036(AF) | Demand 2037(AF) | Demand 2038(AF) | Demand 2039(AF) | Demand 2040(AF) |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Residential       | 1,524           | 1,526           | 1,528           | 1,530           | 1,532           | 1,534           | 1,536           | 1,538           | 1,540           | 1,542           |
| Multi-Residential | 102             | 102             | 102             | 102             | 102             | 102             | 103             | 103             | 103             | 103             |
| Commercial        | 878             | 879             | 880             | 881             | 883             | 884             | 885             | 886             | 887             | 888             |
| Industrial        | 711             | 716             | 721             | 726             | 731             | 735             | 740             | 745             | 750             | 755             |
| Government        | 325             | 325             | 326             | 326             | 326             | 327             | 327             | 328             | 328             | 329             |
| Other             | 4               | 4               | 4               | 4               | 4               | 4               | 4               | 4               | 4               | 4               |
| Unaccounted       | 298             | 299             | 299             | 299             | 300             | 300             | 301             | 301             | 301             | 302             |
| <b>Total</b>      | <b>3,841</b>    | <b>3,850</b>    | <b>3,859</b>    | <b>3,868</b>    | <b>3,877</b>    | <b>3,886</b>    | <b>3,896</b>    | <b>3,905</b>    | <b>3,914</b>    | <b>3,923</b>    |

**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**

Scenario #3: Based on Maintaining Growth at the  10-Year Average Annual Growth and  Low Demand per Service for each Customer Class.  
 5-Year  Average  High

| Summary of Historical Growth Rate from Worksheet 2 |                                    |                                 |                             |
|----------------------------------------------------|------------------------------------|---------------------------------|-----------------------------|
| Customer Type                                      | 10 Yr. Avg. Historical Growth Rate | Individual Growth Rate Selected | Notes                       |
| Single Family Residential                          | -0.042%                            | 0.134%                          | Overall growth rate used    |
| Multi Family Residential                           | 0.000%                             | 0.134%                          | Historical growth rate used |
| Commercial                                         | 0.624%                             | 0.134%                          | Historical growth rate used |
| Industrial                                         | 0.667%                             | 0.667%                          | Overall growth rate used    |
| Government                                         | 0.609%                             | 0.134%                          | Historical growth rate used |
| Other                                              | 6.000%                             | 0.134%                          | Overall growth rate used    |
| Overall                                            | 0.134%                             | 0.141%                          |                             |

| Summary of Average Demand per Service from Worksheets 5 and 6 |                   |           |        |            |            |            |             |                         |                       |
|---------------------------------------------------------------|-------------------|-----------|--------|------------|------------|------------|-------------|-------------------------|-----------------------|
| Demand/Serv. Units                                            | Multi-Residential |           |        | Commercial | Industrial | Government | Total Other | Unaccounted Total Serv. | Combined Demand/Serv. |
|                                                               | Residential       | (service) | (unit) |            |            |            |             |                         |                       |
| Gal/Service/Yr                                                | 281,449           | 3,968,416 | 60,367 | 369,646    | 9,068,458  | 873,845    | 2,069,860   | 31,768                  | 397,100               |
| AF/Service/Yr                                                 | 0.864             | 12.179    | 0.185  | 1.134      | 27.830     | 2.682      | 6.352       | 0.097                   | 1.219                 |
| Gal/Service/Day                                               | 771               | 10,872    | 165    | 1,013      | 24,845     | 2,394      | 5,671       | 87                      | 1,088                 |

**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**

**30-year projection Summary**

Scenario #3: Based on Maintaining Growth at the  10-Year Average Annual Growth and  Low Demand per Service for each Customer Class.  
 5-Year  Average  High

| Customer Type             | Projected Services 2010 | Projected Services 2015 | Projected Services 2020 | Projected Services 2025 | Projected Services 2030 | Projected Services 2035 | Projected Services 2040 | Services projected to be added from 2010 - 2040 |
|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------------------------------|
| Single Family Residential | 2,583                   | 2,601                   | 2,618                   | 2,636                   | 2,654                   | 2,671                   | 2,689                   | 106                                             |
| Multi Family Residential  | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 15                      | 1                                               |
| Commercial                | 720                     | 725                     | 730                     | 735                     | 740                     | 744                     | 749                     | 30                                              |
| Industrial                | 16                      | 17                      | 17                      | 18                      | 18                      | 19                      | 20                      | 4                                               |
| Government                | 122                     | 123                     | 124                     | 125                     | 125                     | 126                     | 127                     | 5                                               |
| Other                     | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 0                                               |
| <b>Total</b>              | <b>3,462</b>            | <b>3,485</b>            | <b>3,509</b>            | <b>3,533</b>            | <b>3,558</b>            | <b>3,582</b>            | <b>3,607</b>            | <b>145</b>                                      |

| Customer Type             | Projected Demand 2010 (ccf) | Projected Demand 2015 (ccf) | Projected Demand 2020 (ccf) | Projected Demand 2025 (ccf) | Projected Demand 2030 (ccf) | Projected Demand 2035 (ccf) | Projected Demand 2040 (ccf) | Projected demand to be added from 2010 - 2040 (ccf) |
|---------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------------------|
| Single Family Residential | 972,003                     | 978,533                     | 985,107                     | 991,725                     | 998,387                     | 1,005,094                   | 1,011,847                   | 39,843                                              |
| Multi Family Residential  | 74,369                      | 74,869                      | 75,372                      | 75,878                      | 76,388                      | 76,901                      | 77,418                      | 3,048                                               |
| Commercial                | 355,765                     | 358,155                     | 360,561                     | 362,983                     | 365,422                     | 367,877                     | 370,348                     | 14,583                                              |
| Industrial                | 195,257                     | 201,856                     | 208,679                     | 215,732                     | 223,023                     | 230,561                     | 238,353                     | 43,096                                              |
| Government                | 142,706                     | 143,665                     | 144,630                     | 145,601                     | 146,580                     | 147,564                     | 148,556                     | 5,850                                               |
| Other                     | 16,624                      | 16,736                      | 16,848                      | 16,961                      | 17,075                      | 17,190                      | 17,306                      | 681                                                 |
| Unaccounted               | 147,011                     | 148,017                     | 149,030                     | 150,051                     | 151,080                     | 152,116                     | 153,160                     | 6,149                                               |
| <b>Total</b>              | <b>1,903,735</b>            | <b>1,921,831</b>            | <b>1,940,227</b>            | <b>1,958,932</b>            | <b>1,977,955</b>            | <b>1,997,303</b>            | <b>2,016,986</b>            | <b>113,251</b>                                      |

| Customer Type             | Projected Demand 2010 (AF) | Projected Demand 2015 (AF) | Projected Demand 2020 (AF) | Projected Demand 2025 (AF) | Projected Demand 2030 (AF) | Projected Demand 2035 (AF) | Projected Demand 2040 (AF) | Projected demand to be added from 2010 - 2040 (AF) |
|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------------------------------|
| Single Family Residential | 2,231                      | 2,246                      | 2,262                      | 2,277                      | 2,292                      | 2,307                      | 2,323                      | 91                                                 |
| Multi Family Residential  | 171                        | 172                        | 173                        | 174                        | 175                        | 177                        | 178                        | 7                                                  |
| Commercial                | 817                        | 822                        | 828                        | 833                        | 839                        | 845                        | 850                        | 33                                                 |
| Industrial                | 448                        | 463                        | 479                        | 495                        | 512                        | 529                        | 547                        | 99                                                 |
| Government                | 328                        | 330                        | 332                        | 334                        | 337                        | 339                        | 341                        | 13                                                 |
| Other                     | 38                         | 38                         | 39                         | 39                         | 39                         | 39                         | 40                         | 2                                                  |
| Unaccounted               | 337                        | 340                        | 342                        | 344                        | 347                        | 349                        | 352                        | 14                                                 |
| <b>Total</b>              | <b>4,370</b>               | <b>4,412</b>               | <b>4,454</b>               | <b>4,497</b>               | <b>4,541</b>               | <b>4,585</b>               | <b>4,630</b>               | <b>260</b>                                         |
|                           | 4,033                      | 4,072                      | 4,112                      | 4,153                      | 4,194                      | 4,236                      | 4,279                      |                                                    |

**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**

Scenario #3: Based on Maintaining Growth at the

- 10-Year
- 5-Year

Average Annual Growth and

- Low
- Average
- High

**2000's Projections**

Demand per Service for each Customer Class.

| Customer Type     | Actual Services 2001 | Actual Services 2002 | Actual Services 2003 | Actual Services 2004 | Actual Services 2005 | Actual Services 2006 | Actual Services 2007 | Actual Services 2008 | Actual Services 2009 | Projected Services 2010 |
|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|
| Residential       | 2,589                | 2,626                | 2,611                | 2,629                | 2,635                | 2,639                | 2,650                | 2,609                | 2,580                | 2,583                   |
| Multi-Residential | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                      |
| Commercial        | 683                  | 691                  | 691                  | 689                  | 694                  | 692                  | 702                  | 716                  | 719                  | 720                     |
| Industrial        | 15                   | 15                   | 15                   | 16                   | 16                   | 16                   | 16                   | 16                   | 16                   | 16                      |
| Government        | 119                  | 118                  | 116                  | 117                  | 120                  | 123                  | 120                  | 123                  | 122                  | 122                     |
| Other             | 0                    | 0                    | 0                    | 2                    | 4                    | 5                    | 8                    | 8                    | 6                    | 6                       |
| <b>Total</b>      | <b>3,420</b>         | <b>3,463</b>         | <b>3,446</b>         | <b>3,467</b>         | <b>3,483</b>         | <b>3,489</b>         | <b>3,510</b>         | <b>3,486</b>         | <b>3,457</b>         | <b>3,462</b>            |

| Customer Type     | Demand 2001(ccf) | Demand 2002(ccf) | Demand 2003(ccf) | Demand 2004(ccf) | Demand 2005(ccf) | Demand 2006(ccf) | Demand 2007(ccf) | Demand 2008(ccf) | Demand 2009(ccf) | Demand 2010(ccf) |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Residential       | 974,120          | 988,104          | 982,397          | 989,138          | 991,396          | 992,901          | 997,039          | 981,614          | 970,703          | 972,003          |
| Multi-Residential | 74,270           | 74,270           | 74,270           | 74,270           | 74,270           | 74,270           | 74,270           | 74,270           | 74,270           | 74,369           |
| Commercial        | 337,541          | 341,288          | 341,206          | 340,465          | 342,935          | 341,947          | 346,888          | 353,806          | 355,289          | 355,765          |
| Industrial        | 181,841          | 181,841          | 181,841          | 193,963          | 193,963          | 193,963          | 193,963          | 193,963          | 193,963          | 195,257          |
| Government        | 138,524          | 137,258          | 135,214          | 136,674          | 140,179          | 143,683          | 140,179          | 143,683          | 142,515          | 142,706          |
| Other             | 0                | 0                | 0                | 5,534            | 11,068           | 13,835           | 22,136           | 22,136           | 16,602           | 16,624           |
| Unaccounted       | 145,228          | 147,083          | 146,357          | 147,235          | 147,914          | 148,169          | 149,061          | 148,042          | 146,810          | 147,011          |
| <b>Total</b>      | <b>1,851,523</b> | <b>1,869,843</b> | <b>1,861,285</b> | <b>1,887,279</b> | <b>1,901,725</b> | <b>1,908,768</b> | <b>1,923,537</b> | <b>1,917,514</b> | <b>1,900,152</b> | <b>1,903,735</b> |

| Customer Type     | Demand 2001(AF) | Demand 2002(AF) | Demand 2003(AF) | Demand 2004(AF) | Demand 2005(AF) | Demand 2006(AF) | Demand 2007(AF) | Demand 2008(AF) | Demand 2009(AF) | Demand 2010(AF) |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Residential       | 2,236           | 2,268           | 2,255           | 2,271           | 2,276           | 2,279           | 2,289           | 2,253           | 2,228           | 2,231           |
| Multi-Residential | 171             | 171             | 171             | 171             | 171             | 171             | 171             | 171             | 171             | 171             |
| Commercial        | 775             | 783             | 783             | 782             | 787             | 785             | 796             | 812             | 816             | 817             |
| Industrial        | 417             | 417             | 417             | 445             | 445             | 445             | 445             | 445             | 445             | 448             |
| Government        | 318             | 315             | 310             | 314             | 322             | 330             | 322             | 330             | 327             | 328             |
| Other             | 0               | 0               | 0               | 13              | 25              | 32              | 51              | 51              | 38              | 38              |
| Unaccounted       | 333             | 338             | 336             | 338             | 340             | 340             | 342             | 340             | 337             | 337             |
| <b>Total</b>      | <b>4,251</b>    | <b>4,293</b>    | <b>4,273</b>    | <b>4,333</b>    | <b>4,366</b>    | <b>4,382</b>    | <b>4,416</b>    | <b>4,402</b>    | <b>4,362</b>    | <b>4,370</b>    |



**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**

Scenario #3: Based on Maintaining Growth at the

- 10-Year
- 5-Year

Average Annual Growth and

- Low
- Average
- High

**2010's Projections**

Demand per Service for each Customer Class.

| Customer Type     | Projected Services 2011 | Projected Services 2012 | Projected Services 2013 | Projected Services 2014 | Projected Services 2015 | Projected Services 2016 | Projected Services 2017 | Projected Services 2018 | Projected Services 2019 | Projected Services 2020 |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Residential       | 2,587                   | 2,590                   | 2,594                   | 2,597                   | 2,601                   | 2,604                   | 2,608                   | 2,611                   | 2,615                   | 2,618                   |
| Multi-Residential | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      |
| Commercial        | 721                     | 722                     | 723                     | 724                     | 725                     | 726                     | 727                     | 728                     | 729                     | 730                     |
| Industrial        | 16                      | 16                      | 16                      | 17                      | 17                      | 17                      | 17                      | 17                      | 17                      | 17                      |
| Government        | 122                     | 122                     | 123                     | 123                     | 123                     | 123                     | 123                     | 123                     | 124                     | 124                     |
| Other             | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       |
| <b>Total</b>      | <b>3,466</b>            | <b>3,471</b>            | <b>3,476</b>            | <b>3,481</b>            | <b>3,485</b>            | <b>3,490</b>            | <b>3,495</b>            | <b>3,500</b>            | <b>3,504</b>            | <b>3,509</b>            |

| Customer Type     | Demand 2011(ccf) | Demand 2012(ccf) | Demand 2013(ccf) | Demand 2014(ccf) | Demand 2015(ccf) | Demand 2016(ccf) | Demand 2017(ccf) | Demand 2018(ccf) | Demand 2019(ccf) | Demand 2020(ccf) |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Residential       | 973,306          | 974,610          | 975,916          | 977,224          | 978,533          | 979,844          | 981,157          | 982,472          | 983,789          | 985,107          |
| Multi-Residential | 74,469           | 74,569           | 74,669           | 74,769           | 74,869           | 74,969           | 75,070           | 75,170           | 75,271           | 75,372           |
| Commercial        | 356,242          | 356,719          | 357,197          | 357,676          | 358,155          | 358,635          | 359,115          | 359,597          | 360,079          | 360,561          |
| Industrial        | 196,560          | 197,871          | 199,190          | 200,519          | 201,856          | 203,203          | 204,558          | 205,923          | 207,296          | 208,679          |
| Government        | 142,897          | 143,089          | 143,280          | 143,472          | 143,665          | 143,857          | 144,050          | 144,243          | 144,436          | 144,630          |
| Other             | 16,646           | 16,669           | 16,691           | 16,713           | 16,736           | 16,758           | 16,781           | 16,803           | 16,826           | 16,848           |
| Unaccounted       | 147,211          | 147,412          | 147,613          | 147,815          | 148,017          | 148,219          | 148,421          | 148,624          | 148,827          | 149,030          |
| <b>Total</b>      | <b>1,907,331</b> | <b>1,910,938</b> | <b>1,914,557</b> | <b>1,918,188</b> | <b>1,921,831</b> | <b>1,925,486</b> | <b>1,929,153</b> | <b>1,932,832</b> | <b>1,936,523</b> | <b>1,940,227</b> |

| Customer Type     | Demand 2011(AF) | Demand 2012(AF) | Demand 2013(AF) | Demand 2014(AF) | Demand 2015(AF) | Demand 2016(AF) | Demand 2017(AF) | Demand 2018(AF) | Demand 2019(AF) | Demand 2020(AF) |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Residential       | 2,234           | 2,237           | 2,240           | 2,243           | 2,246           | 2,249           | 2,252           | 2,255           | 2,258           | 2,262           |
| Multi-Residential | 171             | 171             | 171             | 172             | 172             | 172             | 172             | 173             | 173             | 173             |
| Commercial        | 818             | 819             | 820             | 821             | 822             | 823             | 824             | 826             | 827             | 828             |
| Industrial        | 451             | 454             | 457             | 460             | 463             | 466             | 470             | 473             | 476             | 479             |
| Government        | 328             | 328             | 329             | 329             | 330             | 330             | 331             | 331             | 332             | 332             |
| Other             | 38              | 38              | 38              | 38              | 38              | 38              | 39              | 39              | 39              | 39              |
| Unaccounted       | 338             | 338             | 339             | 339             | 340             | 340             | 341             | 341             | 342             | 342             |
| <b>Total</b>      | <b>4,379</b>    | <b>4,387</b>    | <b>4,395</b>    | <b>4,404</b>    | <b>4,412</b>    | <b>4,420</b>    | <b>4,429</b>    | <b>4,437</b>    | <b>4,446</b>    | <b>4,454</b>    |

**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**

Scenario #3: Based on Maintaining Growth at the

- 10-Year
- 5-Year

Average Annual Growth and

- Low
- Average
- High

**2020's Projections**

Demand per Service for each Customer Class.

| Customer Type     | Projected Services 2021 | Projected Services 2022 | Projected Services 2023 | Projected Services 2024 | Projected Services 2025 | Projected Services 2026 | Projected Services 2027 | Projected Services 2028 | Projected Services 2029 | Projected Services 2030 |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Residential       | 2,622                   | 2,625                   | 2,629                   | 2,632                   | 2,636                   | 2,639                   | 2,643                   | 2,646                   | 2,650                   | 2,654                   |
| Multi-Residential | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      |
| Commercial        | 731                     | 732                     | 733                     | 734                     | 735                     | 736                     | 737                     | 738                     | 739                     | 740                     |
| Industrial        | 17                      | 17                      | 18                      | 18                      | 18                      | 18                      | 18                      | 18                      | 18                      | 18                      |
| Government        | 124                     | 124                     | 124                     | 124                     | 125                     | 125                     | 125                     | 125                     | 125                     | 125                     |
| Other             | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       |
| <b>Total</b>      | <b>3,514</b>            | <b>3,519</b>            | <b>3,524</b>            | <b>3,528</b>            | <b>3,533</b>            | <b>3,538</b>            | <b>3,543</b>            | <b>3,548</b>            | <b>3,553</b>            | <b>3,558</b>            |

| Customer Type     | Demand 2021(ccf) | Demand 2022(ccf) | Demand 2023(ccf) | Demand 2024(ccf) | Demand 2025(ccf) | Demand 2026(ccf) | Demand 2027(ccf) | Demand 2028(ccf) | Demand 2029(ccf) | Demand 2030(ccf) |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Residential       | 986,427          | 987,749          | 989,072          | 990,398          | 991,725          | 993,054          | 994,384          | 995,717          | 997,051          | 998,387          |
| Multi-Residential | 75,473           | 75,574           | 75,675           | 75,777           | 75,878           | 75,980           | 76,082           | 76,184           | 76,286           | 76,388           |
| Commercial        | 361,044          | 361,528          | 362,012          | 362,498          | 362,983          | 363,470          | 363,957          | 364,444          | 364,933          | 365,422          |
| Industrial        | 210,071          | 211,472          | 212,882          | 214,302          | 215,732          | 217,171          | 218,619          | 220,077          | 221,545          | 223,023          |
| Government        | 144,824          | 145,018          | 145,212          | 145,407          | 145,601          | 145,797          | 145,992          | 146,188          | 146,383          | 146,580          |
| Other             | 16,871           | 16,893           | 16,916           | 16,939           | 16,961           | 16,984           | 17,007           | 17,030           | 17,053           | 17,075           |
| Unaccounted       | 149,234          | 149,438          | 149,642          | 149,846          | 150,051          | 150,256          | 150,462          | 150,667          | 150,873          | 151,080          |
| <b>Total</b>      | <b>1,943,943</b> | <b>1,947,671</b> | <b>1,951,412</b> | <b>1,955,166</b> | <b>1,958,932</b> | <b>1,962,711</b> | <b>1,966,502</b> | <b>1,970,307</b> | <b>1,974,124</b> | <b>1,977,955</b> |

| Customer Type     | Demand 2021(AF) | Demand 2022(AF) | Demand 2023(AF) | Demand 2024(AF) | Demand 2025(AF) | Demand 2026(AF) | Demand 2027(AF) | Demand 2028(AF) | Demand 2029(AF) | Demand 2030(AF) |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Residential       | 2,265           | 2,268           | 2,271           | 2,274           | 2,277           | 2,280           | 2,283           | 2,286           | 2,289           | 2,292           |
| Multi-Residential | 173             | 173             | 174             | 174             | 174             | 174             | 175             | 175             | 175             | 175             |
| Commercial        | 829             | 830             | 831             | 832             | 833             | 834             | 836             | 837             | 838             | 839             |
| Industrial        | 482             | 485             | 489             | 492             | 495             | 499             | 502             | 505             | 509             | 512             |
| Government        | 332             | 333             | 333             | 334             | 334             | 335             | 335             | 336             | 336             | 337             |
| Other             | 39              | 39              | 39              | 39              | 39              | 39              | 39              | 39              | 39              | 39              |
| Unaccounted       | 343             | 343             | 344             | 344             | 344             | 345             | 345             | 346             | 346             | 347             |
| <b>Total</b>      | <b>4,463</b>    | <b>4,471</b>    | <b>4,480</b>    | <b>4,488</b>    | <b>4,497</b>    | <b>4,506</b>    | <b>4,514</b>    | <b>4,523</b>    | <b>4,532</b>    | <b>4,541</b>    |

**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**

Scenario #3: Based on Maintaining Growth at the

- 10-Year
- 5-Year

Average Annual Growth and

- Low
- Average
- High

**2030's Projections**

Demand per Service for each Customer Class.

| Customer Type     | Projected Services 2031 | Projected Services 2032 | Projected Services 2033 | Projected Services 2034 | Projected Services 2035 | Projected Services 2036 | Projected Services 2037 | Projected Services 2038 | Projected Services 2039 | Projected Services 2040 |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Residential       | 2,657                   | 2,661                   | 2,664                   | 2,668                   | 2,671                   | 2,675                   | 2,679                   | 2,682                   | 2,686                   | 2,689                   |
| Multi-Residential | 14                      | 14                      | 14                      | 14                      | 14                      | 15                      | 15                      | 15                      | 15                      | 15                      |
| Commercial        | 740                     | 741                     | 742                     | 743                     | 744                     | 745                     | 746                     | 747                     | 748                     | 749                     |
| Industrial        | 19                      | 19                      | 19                      | 19                      | 19                      | 19                      | 19                      | 19                      | 20                      | 20                      |
| Government        | 126                     | 126                     | 126                     | 126                     | 126                     | 126                     | 127                     | 127                     | 127                     | 127                     |
| Other             | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       |
| <b>Total</b>      | <b>3,562</b>            | <b>3,567</b>            | <b>3,572</b>            | <b>3,577</b>            | <b>3,582</b>            | <b>3,587</b>            | <b>3,592</b>            | <b>3,597</b>            | <b>3,602</b>            | <b>3,607</b>            |

| Customer Type     | Demand 2031(ccf) | Demand 2032(ccf) | Demand 2033(ccf) | Demand 2034(ccf) | Demand 2035(ccf) | Demand 2036(ccf) | Demand 2037(ccf) | Demand 2038(ccf) | Demand 2039(ccf) | Demand 2040(ccf) |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Residential       | 999,725          | 1,001,065        | 1,002,406        | 1,003,749        | 1,005,094        | 1,006,441        | 1,007,790        | 1,009,140        | 1,010,493        | 1,011,847        |
| Multi-Residential | 76,490           | 76,593           | 76,695           | 76,798           | 76,901           | 77,004           | 77,107           | 77,211           | 77,314           | 77,418           |
| Commercial        | 365,911          | 366,402          | 366,893          | 367,384          | 367,877          | 368,370          | 368,863          | 369,358          | 369,852          | 370,348          |
| Industrial        | 224,511          | 226,008          | 227,515          | 229,033          | 230,561          | 232,098          | 233,647          | 235,205          | 236,774          | 238,353          |
| Government        | 146,776          | 146,973          | 147,170          | 147,367          | 147,564          | 147,762          | 147,960          | 148,158          | 148,357          | 148,556          |
| Other             | 17,098           | 17,121           | 17,144           | 17,167           | 17,190           | 17,213           | 17,236           | 17,259           | 17,282           | 17,306           |
| Unaccounted       | 151,286          | 151,493          | 151,700          | 151,908          | 152,116          | 152,324          | 152,532          | 152,741          | 152,950          | 153,160          |
| <b>Total</b>      | <b>1,981,798</b> | <b>1,985,654</b> | <b>1,989,524</b> | <b>1,993,407</b> | <b>1,997,303</b> | <b>2,001,213</b> | <b>2,005,136</b> | <b>2,009,072</b> | <b>2,013,022</b> | <b>2,016,986</b> |

| Customer Type     | Demand 2031(AF) | Demand 2032(AF) | Demand 2033(AF) | Demand 2034(AF) | Demand 2035(AF) | Demand 2036(AF) | Demand 2037(AF) | Demand 2038(AF) | Demand 2039(AF) | Demand 2040(AF) |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Residential       | 2,295           | 2,298           | 2,301           | 2,304           | 2,307           | 2,310           | 2,314           | 2,317           | 2,320           | 2,323           |
| Multi-Residential | 176             | 176             | 176             | 176             | 177             | 177             | 177             | 177             | 177             | 178             |
| Commercial        | 840             | 841             | 842             | 843             | 845             | 846             | 847             | 848             | 849             | 850             |
| Industrial        | 515             | 519             | 522             | 526             | 529             | 533             | 536             | 540             | 544             | 547             |
| Government        | 337             | 337             | 338             | 338             | 339             | 339             | 340             | 340             | 341             | 341             |
| Other             | 39              | 39              | 39              | 39              | 39              | 40              | 40              | 40              | 40              | 40              |
| Unaccounted       | 347             | 348             | 348             | 349             | 349             | 350             | 350             | 351             | 351             | 352             |
| <b>Total</b>      | <b>4,550</b>    | <b>4,558</b>    | <b>4,567</b>    | <b>4,576</b>    | <b>4,585</b>    | <b>4,594</b>    | <b>4,603</b>    | <b>4,612</b>    | <b>4,621</b>    | <b>4,630</b>    |

## California Water Service Company - Oroville District

### Water Supply and Demand Analysis and Projections

Scenario #4: Based on Maintaining Growth at the  10-Year Average Annual Growth  
 5-Year

| Summary of Historical Growth Rate from Worksheet 2 |                                   |                                 |                             |
|----------------------------------------------------|-----------------------------------|---------------------------------|-----------------------------|
| Customer Type                                      | 5 Yr. Avg. Historical Growth Rate | Individual Growth Rate Selected | Notes                       |
| Single Family Residential                          | -0.372%                           | 0.000%                          | Overall growth rate used    |
| Multi Family Residential                           | 0.000%                            | 0.000%                          | Historical growth rate used |
| Commercial                                         | 0.860%                            | 0.000%                          | Historical growth rate used |
| Industrial                                         | 0.000%                            | 0.000%                          | Historical growth rate used |
| Government                                         | 0.862%                            | 0.000%                          | Historical growth rate used |
| Other                                              | 12.000%                           | 0.000%                          | Overall growth rate used    |
| Overall                                            | -0.056%                           | 0.000%                          |                             |

## California Water Service Company - Oroville District

### Water Supply and Demand Analysis and Projections

Scenario #4: Based on Maintaining Growth at the  10-Year Average Annual Growth  
 5-Year

| Customer Type             | Projected Services 2010 | Projected Services 2015 | Projected Services 2020 | Projected Services 2025 | Projected Services 2030 | Projected Services 2035 | Projected Services 2040 | Services projected to be added from 2010 - 2040 |
|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------------------------------|
| Single Family Residential | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 0                                               |
| Multi Family Residential  | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 0                                               |
| Commercial                | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     | 0                                               |
| Industrial                | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 0                                               |
| Government                | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     | 0                                               |
| Other                     | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 0                                               |
| <b>Total</b>              | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>0</b>                                        |

**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**

Worksheet 13

**2000's Projections**

Scenario #4: Based on Maintaining Growth at the  10-Year Average Annual Growth  
 5-Year

| Customer Type     | Actual Services 2001 | Actual Services 2002 | Actual Services 2003 | Actual Services 2004 | Actual Services 2005 | Actual Services 2006 | Actual Services 2007 | Actual Services 2008 | Actual Services 2009 | Projected Services 2010 |
|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|
| Residential       | 2,589                | 2,626                | 2,611                | 2,629                | 2,635                | 2,639                | 2,650                | 2,609                | 2,580                | 2,580                   |
| Multi-Residential | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                   | 14                      |
| Commercial        | 683                  | 691                  | 691                  | 689                  | 694                  | 692                  | 702                  | 716                  | 719                  | 719                     |
| Industrial        | 15                   | 15                   | 15                   | 16                   | 16                   | 16                   | 16                   | 16                   | 16                   | 16                      |
| Government        | 119                  | 118                  | 116                  | 117                  | 120                  | 123                  | 120                  | 123                  | 122                  | 122                     |
| Other             | 0                    | 0                    | 0                    | 2                    | 4                    | 5                    | 8                    | 8                    | 6                    | 6                       |
| <b>Total</b>      | <b>3,420</b>         | <b>3,463</b>         | <b>3,446</b>         | <b>3,467</b>         | <b>3,483</b>         | <b>3,489</b>         | <b>3,510</b>         | <b>3,486</b>         | <b>3,457</b>         | <b>3,457</b>            |

**2010's Projections**

| Customer Type     | Projected Services 2011 | Projected Services 2012 | Projected Services 2013 | Projected Services 2014 | Projected Services 2015 | Projected Services 2016 | Projected Services 2017 | Projected Services 2018 | Projected Services 2019 | Projected Services 2020 |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Residential       | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   |
| Multi-Residential | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      |
| Commercial        | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     |
| Industrial        | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      |
| Government        | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     |
| Other             | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       |
| <b>Total</b>      | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            |

# California Water Service Company - Oroville District

## Water Supply and Demand Analysis and Projections

Worksheet 13

### 2020's Projections

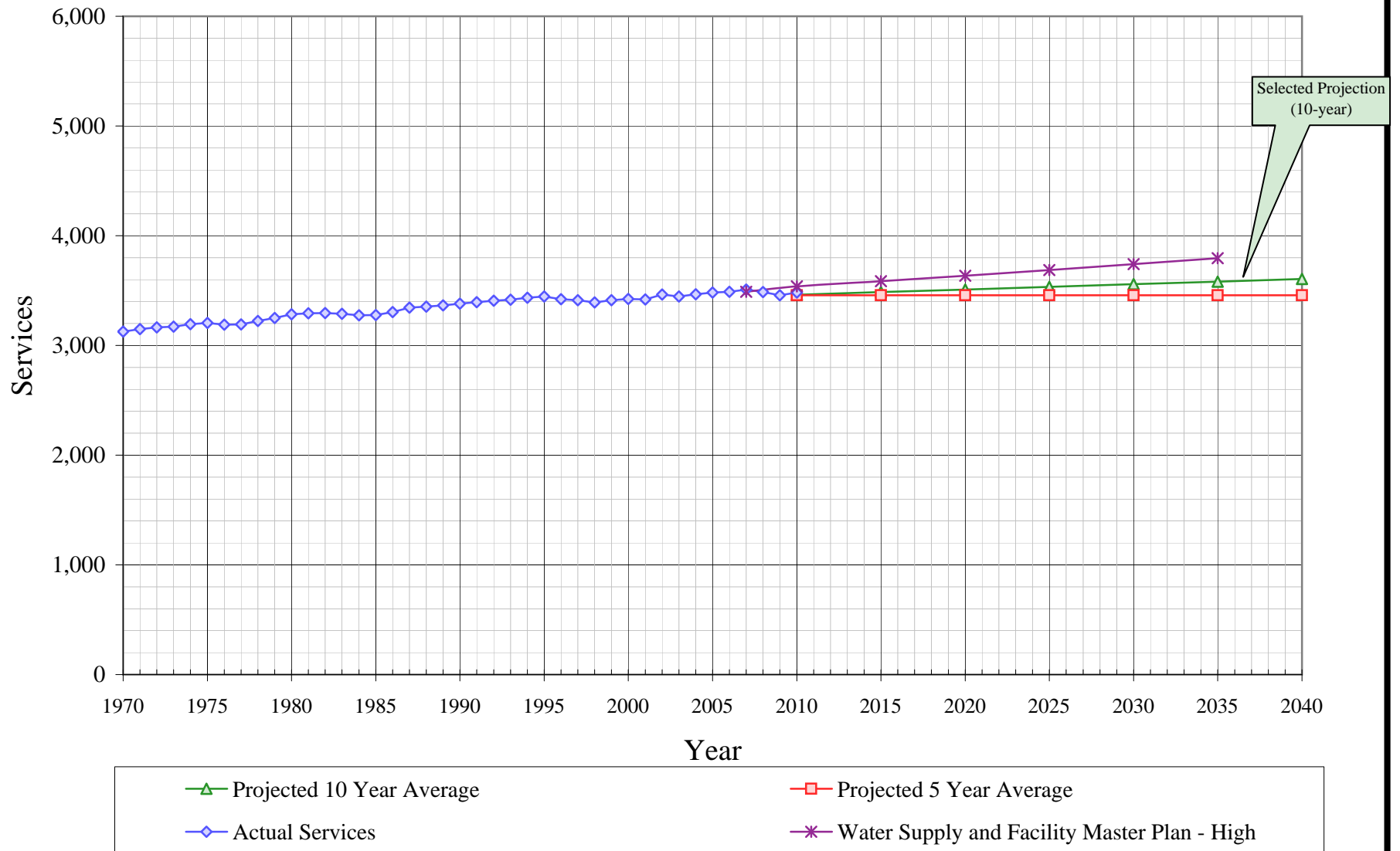
Scenario #4: Based on Maintaining Growth at the  10-Year Average Annual Growth  
 5-Year

| Customer Type     | Projected Services 2021 | Projected Services 2022 | Projected Services 2023 | Projected Services 2024 | Projected Services 2025 | Projected Services 2026 | Projected Services 2027 | Projected Services 2028 | Projected Services 2029 | Projected Services 2030 |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Residential       | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   |
| Multi-Residential | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      |
| Commercial        | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     |
| Industrial        | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      |
| Government        | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     |
| Other             | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       |
| <b>Total</b>      | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            |

### 2030's Projections

| Customer Type     | Projected Services 2031 | Projected Services 2032 | Projected Services 2033 | Projected Services 2034 | Projected Services 2035 | Projected Services 2036 | Projected Services 2037 | Projected Services 2038 | Projected Services 2039 | Projected Services 2040 |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Residential       | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   | 2,580                   |
| Multi-Residential | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      | 14                      |
| Commercial        | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     | 719                     |
| Industrial        | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      |
| Government        | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     | 122                     |
| Other             | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       | 6                       |
| <b>Total</b>      | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            | <b>3,457</b>            |

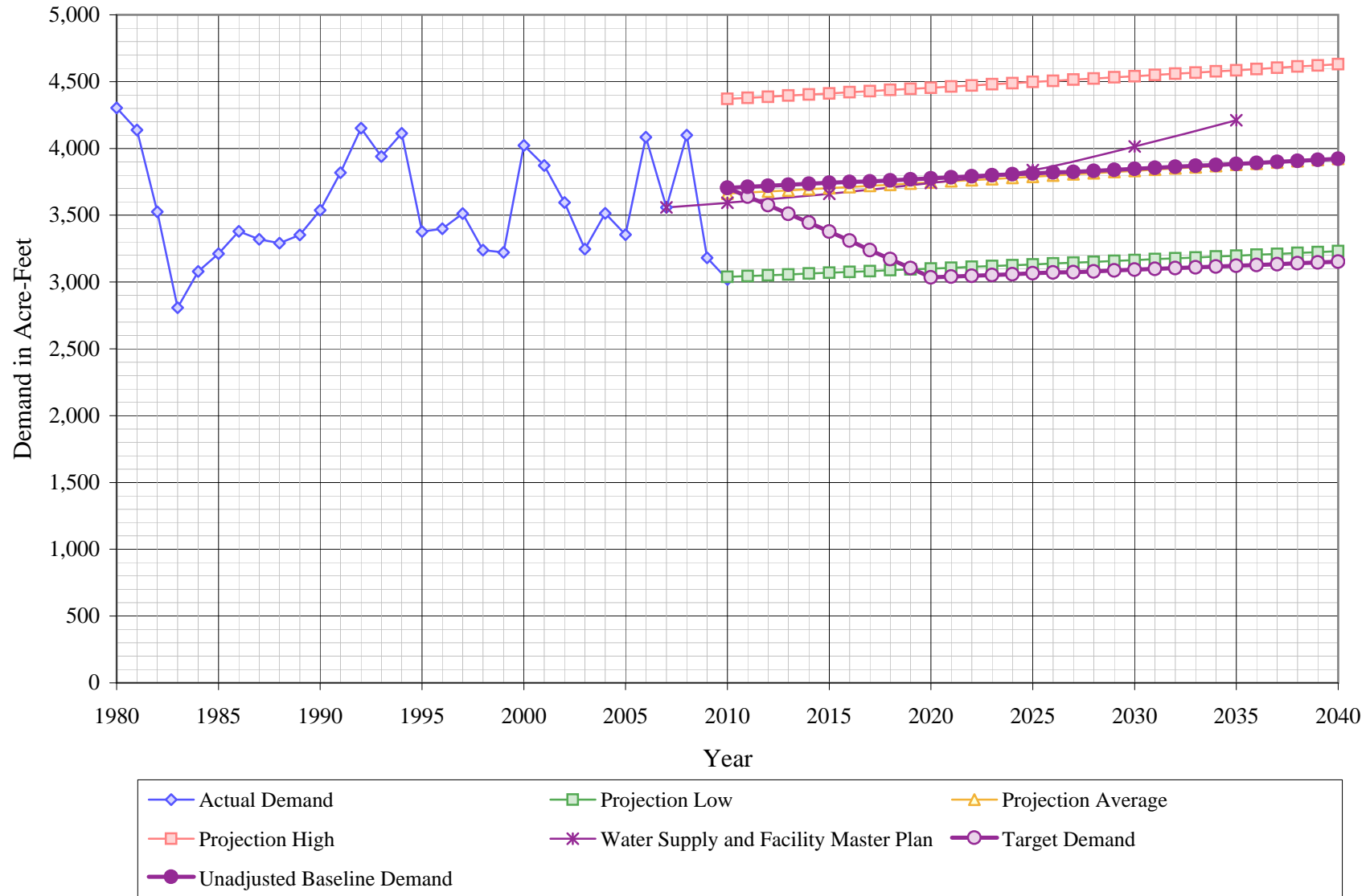
# Oroville District Projected Services







# Oroville District Projected Demand



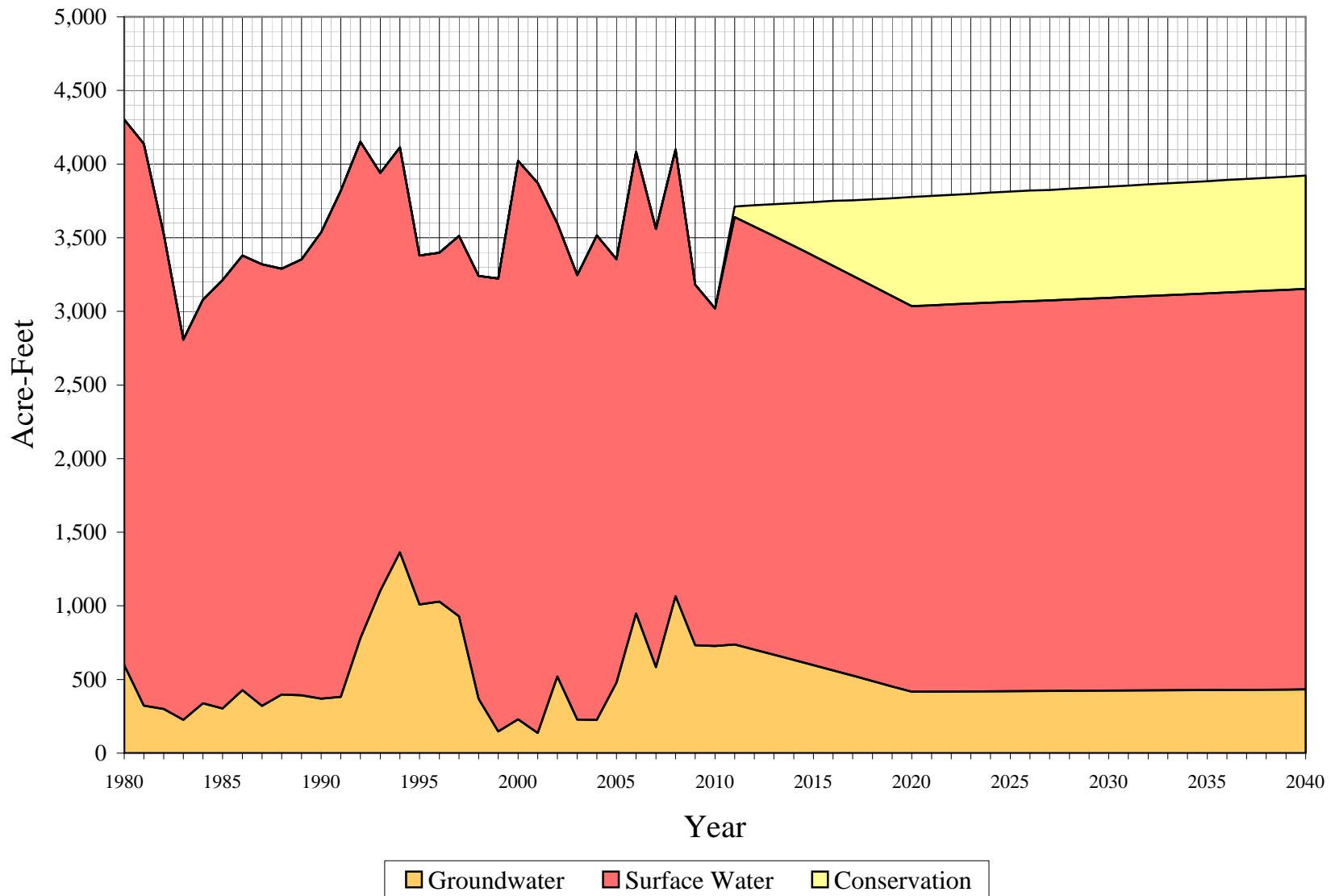
**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**  
**Actual & Projected Demand in Acre-Feet**

Service Growth Rate based on the Five Year Average Growth

| Year | Actual Demand | Projection |         |       | Unadjusted Baseline Demand | Target Demand |
|------|---------------|------------|---------|-------|----------------------------|---------------|
|      |               | Low        | Average | High  |                            |               |
| 1980 | 4,303         |            |         |       |                            |               |
| 1981 | 4,138         |            |         |       |                            |               |
| 1982 | 3,527         |            |         |       |                            |               |
| 1983 | 2,808         |            |         |       |                            |               |
| 1984 | 3,080         |            |         |       |                            |               |
| 1985 | 3,213         |            |         |       |                            |               |
| 1986 | 3,379         |            |         |       |                            |               |
| 1987 | 3,319         |            |         |       |                            |               |
| 1988 | 3,290         |            |         |       |                            |               |
| 1989 | 3,352         |            |         |       |                            |               |
| 1990 | 3,537         |            |         |       |                            |               |
| 1991 | 3,819         |            |         |       |                            |               |
| 1992 | 4,152         |            |         |       |                            |               |
| 1993 | 3,940         |            |         |       |                            |               |
| 1994 | 4,113         |            |         |       |                            |               |
| 1995 | 3,378         |            |         |       |                            |               |
| 1996 | 3,399         |            |         |       |                            |               |
| 1997 | 3,513         |            |         |       |                            |               |
| 1998 | 3,240         |            |         |       |                            |               |
| 1999 | 3,223         |            |         |       |                            |               |
| 2000 | 4,022         |            |         |       |                            |               |
| 2001 | 3,871         |            |         |       |                            |               |
| 2002 | 3,596         |            |         |       |                            |               |
| 2003 | 3,246         |            |         |       |                            |               |
| 2004 | 3,515         |            |         |       |                            |               |
| 2005 | 3,355         |            |         |       |                            |               |
| 2006 | 4,083         |            |         |       |                            |               |
| 2007 | 3,559         |            |         |       |                            |               |
| 2008 | 4,100         |            |         |       |                            |               |
| 2009 | 3,182         |            |         |       |                            |               |
| 2010 | 3,020         | 3,039      | 3,662   | 4,370 | 3,705                      | 3,705         |

| Year | Actual Demand | Projection |         |       | Unadjusted Baseline Demand | Target Demand |
|------|---------------|------------|---------|-------|----------------------------|---------------|
|      |               | Low        | Average | High  |                            |               |
| 2011 |               | 3,045      | 3,670   | 4,379 |                            | 3,640         |
| 2012 |               | 3,051      | 3,678   | 4,387 |                            | 3,575         |
| 2013 |               | 3,057      | 3,686   | 4,395 |                            | 3,510         |
| 2014 |               | 3,063      | 3,695   | 4,404 |                            | 3,444         |
| 2015 |               | 3,069      | 3,703   | 4,412 |                            | 3,378         |
| 2016 |               | 3,076      | 3,711   | 4,420 |                            | 3,311         |
| 2017 |               | 3,082      | 3,720   | 4,429 |                            | 3,240         |
| 2018 |               | 3,088      | 3,728   | 4,437 |                            | 3,172         |
| 2019 |               | 3,094      | 3,737   | 4,446 |                            | 3,104         |
| 2020 |               | 3,100      | 3,745   | 4,454 |                            | 3,035         |
| 2021 |               | 3,107      | 3,754   | 4,463 |                            | 3,041         |
| 2022 |               | 3,113      | 3,762   | 4,471 |                            | 3,047         |
| 2023 |               | 3,119      | 3,771   | 4,480 |                            | 3,053         |
| 2024 |               | 3,126      | 3,780   | 4,488 |                            | 3,059         |
| 2025 |               | 3,132      | 3,788   | 4,497 |                            | 3,065         |
| 2026 |               | 3,139      | 3,797   | 4,506 |                            | 3,071         |
| 2027 |               | 3,145      | 3,806   | 4,514 |                            | 3,074         |
| 2028 |               | 3,151      | 3,815   | 4,523 |                            | 3,080         |
| 2029 |               | 3,158      | 3,824   | 4,532 |                            | 3,086         |
| 2030 |               | 3,164      | 3,832   | 4,541 |                            | 3,092         |
| 2031 |               | 3,171      | 3,841   | 4,550 |                            | 3,098         |
| 2032 |               | 3,177      | 3,850   | 4,558 |                            | 3,104         |
| 2033 |               | 3,184      | 3,859   | 4,567 |                            | 3,110         |
| 2034 |               | 3,191      | 3,868   | 4,576 |                            | 3,116         |
| 2035 |               | 3,197      | 3,877   | 4,585 |                            | 3,122         |
| 2036 |               | 3,204      | 3,886   | 4,594 |                            | 3,128         |
| 2037 |               | 3,210      | 3,896   | 4,603 |                            | 3,134         |
| 2038 |               | 3,217      | 3,905   | 4,612 |                            | 3,140         |
| 2039 |               | 3,224      | 3,914   | 4,621 |                            | 3,146         |
| 2040 |               | 3,231      | 3,923   | 4,630 |                            | 3,152         |

## Oroville District Historical and Projected Distribution of Demand by Source



**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**  
**Historical and Projected Distribution of Demand by Source**

Worksheet 17

| Year | Filter Plant Output |       | Groundwater |       | Conservation |     | Total     |       |
|------|---------------------|-------|-------------|-------|--------------|-----|-----------|-------|
|      | kGal                | AFY   | kGal        | AFY   | kGal         | AFY | kGal      | AFY   |
| 1980 | 1,207,156           | 3,705 | 194,901     | 598   |              |     | 1,402,057 | 4,303 |
| 1981 | 1,243,264           | 3,815 | 105,236     | 323   |              |     | 1,348,500 | 4,138 |
| 1982 | 1,051,751           | 3,228 | 97,390      | 299   |              |     | 1,149,141 | 3,527 |
| 1983 | 841,153             | 2,581 | 73,667      | 226   |              |     | 914,820   | 2,808 |
| 1984 | 893,186             | 2,741 | 110,302     | 339   |              |     | 1,003,488 | 3,080 |
| 1985 | 947,786             | 2,909 | 99,048      | 304   |              |     | 1,046,834 | 3,213 |
| 1986 | 961,376             | 2,950 | 139,580     | 428   |              |     | 1,100,956 | 3,379 |
| 1987 | 976,976             | 2,998 | 104,502     | 321   |              |     | 1,081,478 | 3,319 |
| 1988 | 942,572             | 2,893 | 129,554     | 398   |              |     | 1,072,126 | 3,290 |
| 1989 | 964,115             | 2,959 | 128,185     | 393   |              |     | 1,092,300 | 3,352 |
| 1990 | 1,031,844           | 3,167 | 120,616     | 370   |              |     | 1,152,460 | 3,537 |
| 1991 | 1,119,549           | 3,436 | 124,741     | 383   |              |     | 1,244,290 | 3,819 |
| 1992 | 1,098,690           | 3,372 | 254,231     | 780   |              |     | 1,352,921 | 4,152 |
| 1993 | 924,717             | 2,838 | 359,222     | 1,102 |              |     | 1,283,939 | 3,940 |
| 1994 | 896,062             | 2,750 | 444,216     | 1,363 |              |     | 1,340,278 | 4,113 |
| 1995 | 772,111             | 2,370 | 328,669     | 1,009 |              |     | 1,100,780 | 3,378 |
| 1996 | 772,333             | 2,370 | 335,132     | 1,029 |              |     | 1,107,465 | 3,399 |
| 1997 | 842,067             | 2,584 | 302,525     | 928   |              |     | 1,144,592 | 3,513 |
| 1998 | 935,844             | 2,872 | 119,832     | 368   |              |     | 1,055,676 | 3,240 |
| 1999 | 1,001,972           | 3,075 | 48,118      | 148   |              |     | 1,050,090 | 3,223 |
| 2000 | 1,235,571           | 3,792 | 74,990      | 230   |              |     | 1,310,561 | 4,022 |
| 2001 | 1,216,880           | 3,735 | 44,572      | 137   |              |     | 1,261,452 | 3,871 |
| 2002 | 1,002,257           | 3,076 | 169,485     | 520   |              |     | 1,171,742 | 3,596 |
| 2003 | 983,473             | 3,018 | 74,287      | 228   |              |     | 1,057,760 | 3,246 |
| 2004 | 1,071,673           | 3,289 | 73,663      | 226   |              |     | 1,145,336 | 3,515 |
| 2005 | 937,327             | 2,877 | 155,882     | 478   |              |     | 1,093,209 | 3,355 |
| 2006 | 1,021,411           | 3,135 | 309,122     | 949   |              |     | 1,330,533 | 4,083 |
| 2007 | 969,593             | 2,976 | 190,021     | 583   |              |     | 1,159,614 | 3,559 |
| 2008 | 988,693             | 3,034 | 347,305     | 1,066 |              |     | 1,335,998 | 4,100 |
| 2009 | 797,750             | 2,448 | 238,934     | 733   |              |     | 1,036,684 | 3,182 |
| 2010 | 747,143             | 2,293 | 236,942     | 727   |              |     | 984,085   | 3,020 |
| 2011 | 945,833             | 2,903 | 240,350     | 738   | 23,531       | 72  | 1,209,714 | 3,712 |
| 2012 | 935,947             | 2,872 | 229,044     | 703   | 47,156       | 145 | 1,212,148 | 3,720 |
| 2013 | 926,014             | 2,842 | 217,691     | 668   | 70,877       | 218 | 1,214,582 | 3,727 |
| 2014 | 916,033             | 2,811 | 206,291     | 633   | 94,691       | 291 | 1,217,016 | 3,735 |

| Year | Filter Plant Output |       | Groundwater |     | Conservation |     | Total     |       |
|------|---------------------|-------|-------------|-----|--------------|-----|-----------|-------|
|      | kGal                | AFY   | kGal        | AFY | kGal         | AFY | kGal      | AFY   |
| 2015 | 906,005             | 2,780 | 194,844     | 598 | 118,601      | 364 | 1,219,450 | 3,742 |
| 2016 | 895,721             | 2,749 | 183,139     | 562 | 143,024      | 439 | 1,221,884 | 3,750 |
| 2017 | 884,507             | 2,714 | 171,216     | 525 | 167,377      | 514 | 1,223,101 | 3,754 |
| 2018 | 874,138             | 2,683 | 159,428     | 489 | 191,969      | 589 | 1,225,535 | 3,761 |
| 2019 | 863,721             | 2,651 | 147,591     | 453 | 216,657      | 665 | 1,227,969 | 3,768 |
| 2020 | 853,256             | 2,619 | 135,706     | 416 | 241,441      | 741 | 1,230,403 | 3,776 |
| 2021 | 854,943             | 2,624 | 135,975     | 417 | 241,919      | 742 | 1,232,837 | 3,783 |
| 2022 | 856,631             | 2,629 | 136,243     | 418 | 242,397      | 744 | 1,235,271 | 3,791 |
| 2023 | 858,319             | 2,634 | 136,511     | 419 | 242,874      | 745 | 1,237,705 | 3,798 |
| 2024 | 860,007             | 2,639 | 136,780     | 420 | 243,352      | 747 | 1,240,139 | 3,806 |
| 2025 | 861,695             | 2,644 | 137,048     | 421 | 243,830      | 748 | 1,242,573 | 3,813 |
| 2026 | 863,383             | 2,650 | 137,317     | 421 | 244,307      | 750 | 1,245,007 | 3,821 |
| 2027 | 864,227             | 2,652 | 137,451     | 422 | 244,546      | 750 | 1,246,224 | 3,825 |
| 2028 | 865,915             | 2,657 | 137,720     | 423 | 245,024      | 752 | 1,248,658 | 3,832 |
| 2029 | 867,603             | 2,663 | 137,988     | 423 | 245,501      | 753 | 1,251,092 | 3,839 |
| 2030 | 869,291             | 2,668 | 138,256     | 424 | 245,979      | 755 | 1,253,526 | 3,847 |
| 2031 | 870,979             | 2,673 | 138,525     | 425 | 246,457      | 756 | 1,255,960 | 3,854 |
| 2032 | 872,667             | 2,678 | 138,793     | 426 | 246,934      | 758 | 1,258,394 | 3,862 |
| 2033 | 874,355             | 2,683 | 139,062     | 427 | 247,412      | 759 | 1,260,828 | 3,869 |
| 2034 | 876,043             | 2,688 | 139,330     | 428 | 247,889      | 761 | 1,263,263 | 3,877 |
| 2035 | 877,731             | 2,694 | 139,599     | 428 | 248,367      | 762 | 1,265,697 | 3,884 |
| 2036 | 879,419             | 2,699 | 139,867     | 429 | 248,845      | 764 | 1,268,131 | 3,892 |
| 2037 | 881,107             | 2,704 | 140,136     | 430 | 249,322      | 765 | 1,270,565 | 3,899 |
| 2038 | 882,795             | 2,709 | 140,404     | 431 | 249,800      | 767 | 1,272,999 | 3,907 |
| 2039 | 884,482             | 2,714 | 140,673     | 432 | 250,278      | 768 | 1,275,433 | 3,914 |
| 2040 | 886,170             | 2,720 | 140,941     | 433 | 250,755      | 770 | 1,277,867 | 3,922 |

\*\*\* Filter Plant Output represents a combination of State Water Project water purchased through Butte County and purchases from PG&E.

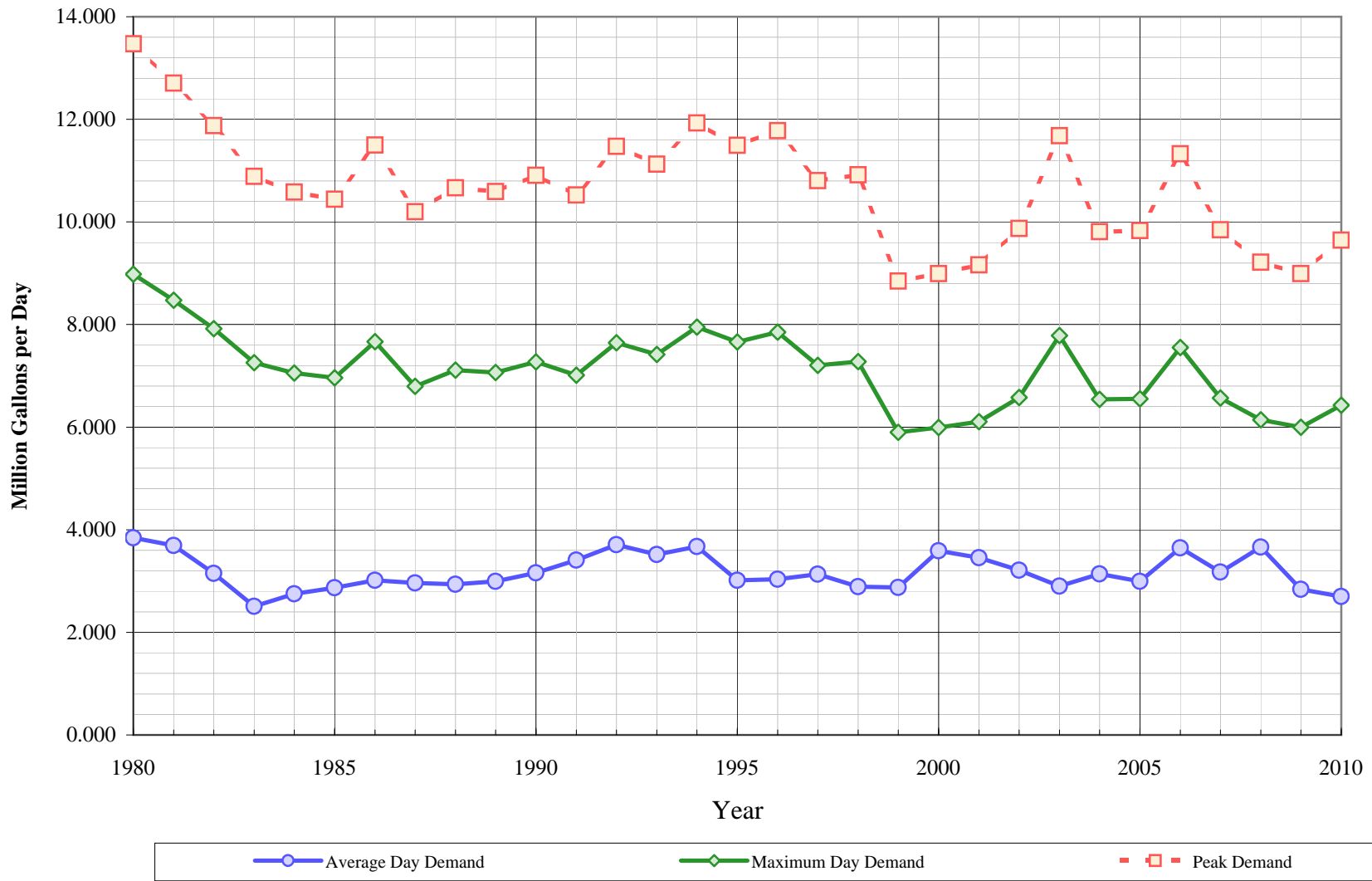
\*\*\* Changes in production reporting and CIS implementation, purchased water does not include raw water from 2000 to present

|            |           |       |         |     |  |           |       |
|------------|-----------|-------|---------|-----|--|-----------|-------|
| 5 Yr Avg.  | 942,955   | 2,894 | 248,253 | 762 |  | 1,191,208 | 3,656 |
| 10 Yr Avg. | 1,022,463 | 3,138 | 167,826 | 515 |  | 1,190,289 | 3,653 |

\*\*\* Five Year Average is from 2005 through 2009. Ten Year Average is from 2000 through 2009.

# Oroville District

## Average Day, Maximum Day, and Peak Demand



## California Water Service Company - Oroville District

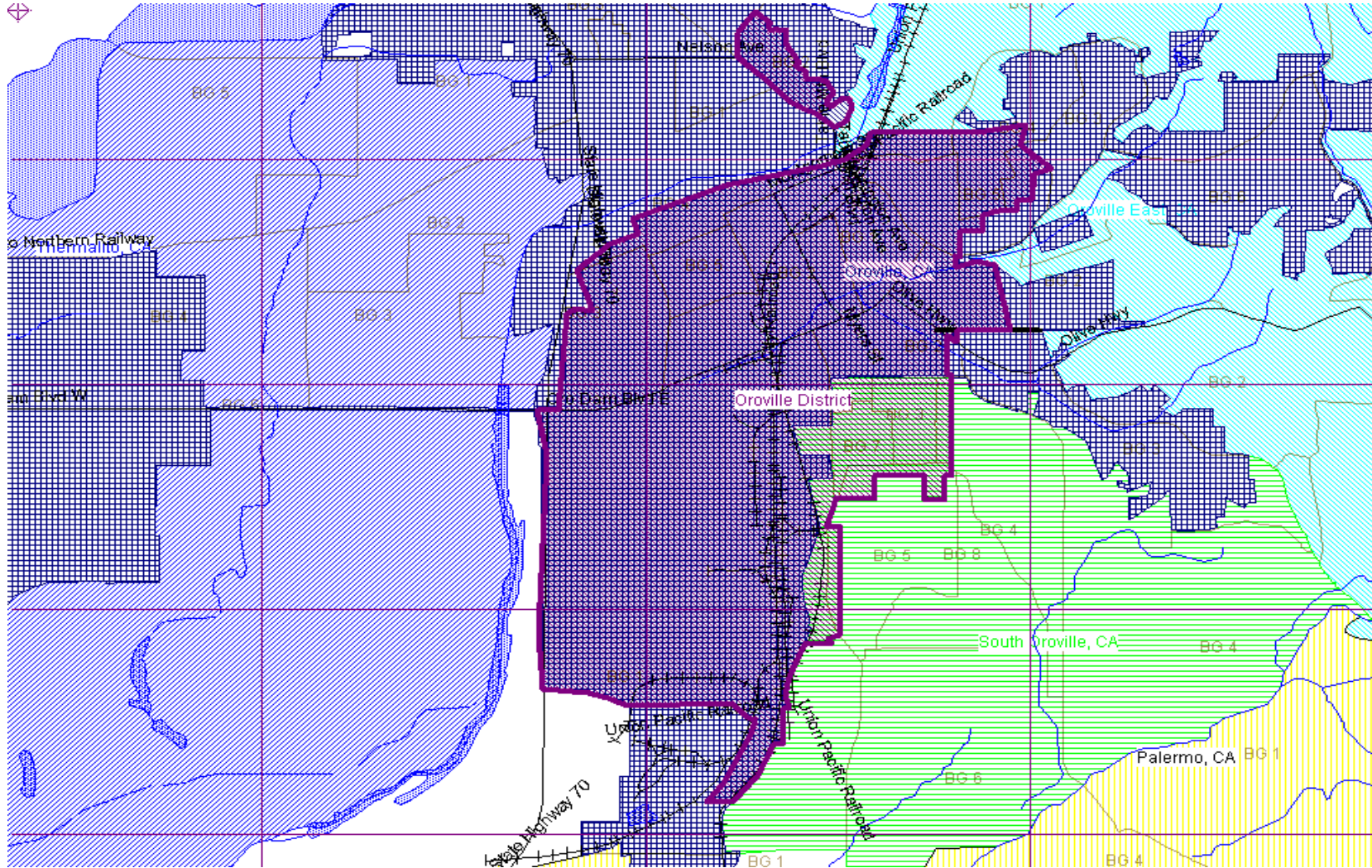
### Water Supply and Demand Analysis and Projections

#### Historical and Projected Average Day, Maximum Day, and Peak Demand

| Year                        | Historical Annual Demand |       | Average Day Demand |       | Maximum Day Demand |       | MDD<br>ADD<br>Ratio | Estimated Peak Hour Demand |       | PHD<br>MDD<br>Ratio | PHD<br>ADD<br>Ratio | Measured Peak Hour Demand |       | PHD<br>MDD<br>Ratio |
|-----------------------------|--------------------------|-------|--------------------|-------|--------------------|-------|---------------------|----------------------------|-------|---------------------|---------------------|---------------------------|-------|---------------------|
|                             | (AFY)                    | (MGY) | (MGD)              | (GPD) | (MGD)              | (GPD) |                     | (MGD)                      | (GPM) |                     |                     | (MGD)                     | (GPM) |                     |
| 1980                        | 4,303                    | 1,402 | 3.841              | 1,170 | 8.981              | 2,735 | 2.34                | 13.472                     | 9,355 | 1.50                | 3.51                |                           |       |                     |
| 1981                        | 4,138                    | 1,349 | 3.695              | 1,122 | 8.471              | 2,572 | 2.29                | 12.707                     | 8,824 | 1.50                | 3.44                |                           |       |                     |
| 1982                        | 3,527                    | 1,149 | 3.148              | 956   | 7.919              | 2,404 | 2.52                | 11.879                     | 8,249 | 1.50                | 3.77                |                           |       |                     |
| 1983                        | 2,808                    | 915   | 2.506              | 762   | 7.258              | 2,207 | 2.90                | 10.887                     | 7,560 | 1.50                | 4.34                |                           |       |                     |
| 1984                        | 3,080                    | 1,003 | 2.749              | 840   | 7.055              | 2,155 | 2.57                | 10.583                     | 7,349 | 1.50                | 3.85                |                           |       |                     |
| 1985                        | 3,213                    | 1,047 | 2.868              | 875   | 6.962              | 2,125 | 2.43                | 10.443                     | 7,252 | 1.50                | 3.64                |                           |       |                     |
| 1986                        | 3,379                    | 1,101 | 3.016              | 913   | 7.666              | 2,321 | 2.54                | 11.499                     | 7,985 | 1.50                | 3.81                |                           |       |                     |
| 1987                        | 3,319                    | 1,081 | 2.963              | 886   | 6.798              | 2,033 | 2.29                | 10.197                     | 7,081 | 1.50                | 3.44                |                           |       |                     |
| 1988                        | 3,290                    | 1,072 | 2.937              | 876   | 7.111              | 2,120 | 2.42                | 10.667                     | 7,407 | 1.50                | 3.63                |                           |       |                     |
| 1989                        | 3,352                    | 1,092 | 2.993              | 889   | 7.063              | 2,099 | 2.36                | 10.595                     | 7,357 | 1.50                | 3.54                |                           |       |                     |
| 1990                        | 3,537                    | 1,152 | 3.157              | 934   | 7.272              | 2,151 | 2.30                | 10.908                     | 7,575 | 1.50                | 3.45                |                           |       |                     |
| 1991                        | 3,819                    | 1,244 | 3.409              | 1,004 | 7.015              | 2,067 | 2.06                | 10.523                     | 7,307 | 1.50                | 3.09                |                           |       |                     |
| 1992                        | 4,152                    | 1,353 | 3.707              | 1,088 | 7.647              | 2,244 | 2.06                | 11.471                     | 7,966 | 1.50                | 3.09                |                           |       |                     |
| 1993                        | 3,940                    | 1,284 | 3.518              | 1,029 | 7.418              | 2,171 | 2.11                | 11.127                     | 7,727 | 1.50                | 3.16                |                           |       |                     |
| 1994                        | 4,113                    | 1,340 | 3.672              | 1,069 | 7.953              | 2,315 | 2.17                | 11.930                     | 8,284 | 1.50                | 3.25                |                           |       |                     |
| 1995                        | 3,378                    | 1,101 | 3.016              | 875   | 7.662              | 2,224 | 2.54                | 11.493                     | 7,981 | 1.50                | 3.81                |                           |       |                     |
| 1996                        | 3,399                    | 1,107 | 3.034              | 887   | 7.853              | 2,296 | 2.59                | 11.780                     | 8,180 | 1.50                | 3.88                |                           |       |                     |
| 1997                        | 3,513                    | 1,145 | 3.136              | 919   | 7.202              | 2,111 | 2.30                | 10.803                     | 7,502 | 1.50                | 3.45                |                           |       |                     |
| 1998                        | 3,240                    | 1,056 | 2.892              | 853   | 7.279              | 2,147 | 2.52                | 10.919                     | 7,582 | 1.50                | 3.78                |                           |       |                     |
| 1999                        | 3,223                    | 1,050 | 2.877              | 843   | 5.899              | 1,729 | 2.05                | 8.849                      | 6,145 | 1.50                | 3.08                |                           |       |                     |
| 2000                        | 4,022                    | 1,311 | 3.591              | 1,049 | 5.993              | 1,750 | 1.67                | 8.990                      | 6,243 | 1.50                | 2.50                |                           |       |                     |
| 2001                        | 3,871                    | 1,261 | 3.456              | 1,011 | 6.107              | 1,786 | 1.77                | 9.161                      | 6,361 | 1.50                | 2.65                |                           |       |                     |
| 2002                        | 3,596                    | 1,172 | 3.210              | 927   | 6.580              | 1,900 | 2.05                | 9.870                      | 6,854 | 1.50                | 3.07                |                           |       |                     |
| 2003                        | 3,246                    | 1,058 | 2.898              | 841   | 7.785              | 2,259 | 2.69                | 11.678                     | 8,109 | 1.50                | 4.03                |                           |       |                     |
| 2004                        | 3,515                    | 1,145 | 3.138              | 905   | 6.541              | 1,887 | 2.08                | 9.812                      | 6,814 | 1.50                | 3.13                |                           |       |                     |
| 2005                        | 3,355                    | 1,093 | 2.995              | 860   | 6.553              | 1,881 | 2.19                | 9.830                      | 6,826 | 1.50                | 3.28                |                           |       |                     |
| 2006                        | 4,083                    | 1,331 | 3.645              | 1,045 | 7.553              | 2,165 | 2.07                | 11.330                     | 7,868 | 1.50                | 3.11                |                           |       |                     |
| 2007                        | 3,559                    | 1,160 | 3.177              | 905   | 6.565              | 1,870 | 2.07                | 9.848                      | 6,839 | 1.50                | 3.10                |                           |       |                     |
| 2008                        | 4,100                    | 1,336 | 3.660              | 1,050 | 6.142              | 1,762 | 1.68                | 9.213                      | 6,398 | 1.50                | 2.52                |                           |       |                     |
| 2009                        | 3,182                    | 1,037 | 2.840              | 822   | 5.996              | 1,734 | 2.11                | 8.994                      | 6,246 | 1.50                | 3.17                |                           |       |                     |
| 2010                        | 3,020                    | 984   | 2.696              | 774   | 6.428              | 1,846 | 2.38                | 9.642                      | 6,696 | 1.50                | 3.58                |                           |       |                     |
| 5 year Average (2006-2010)  |                          |       | 3.204              | 919   | 6.537              | 1,876 | 2.06                | 9.805                      | 6,809 | 1.50                | 3.09                |                           |       |                     |
| 10 year Average (2001-2010) |                          |       | 3.172              | 914   | 6.625              | 1,909 | 2.11                | 9.938                      | 6,901 | 1.50                | 3.16                |                           |       |                     |

# California Water Service Company - Oroville District Water Supply and Demand Analysis and Projections

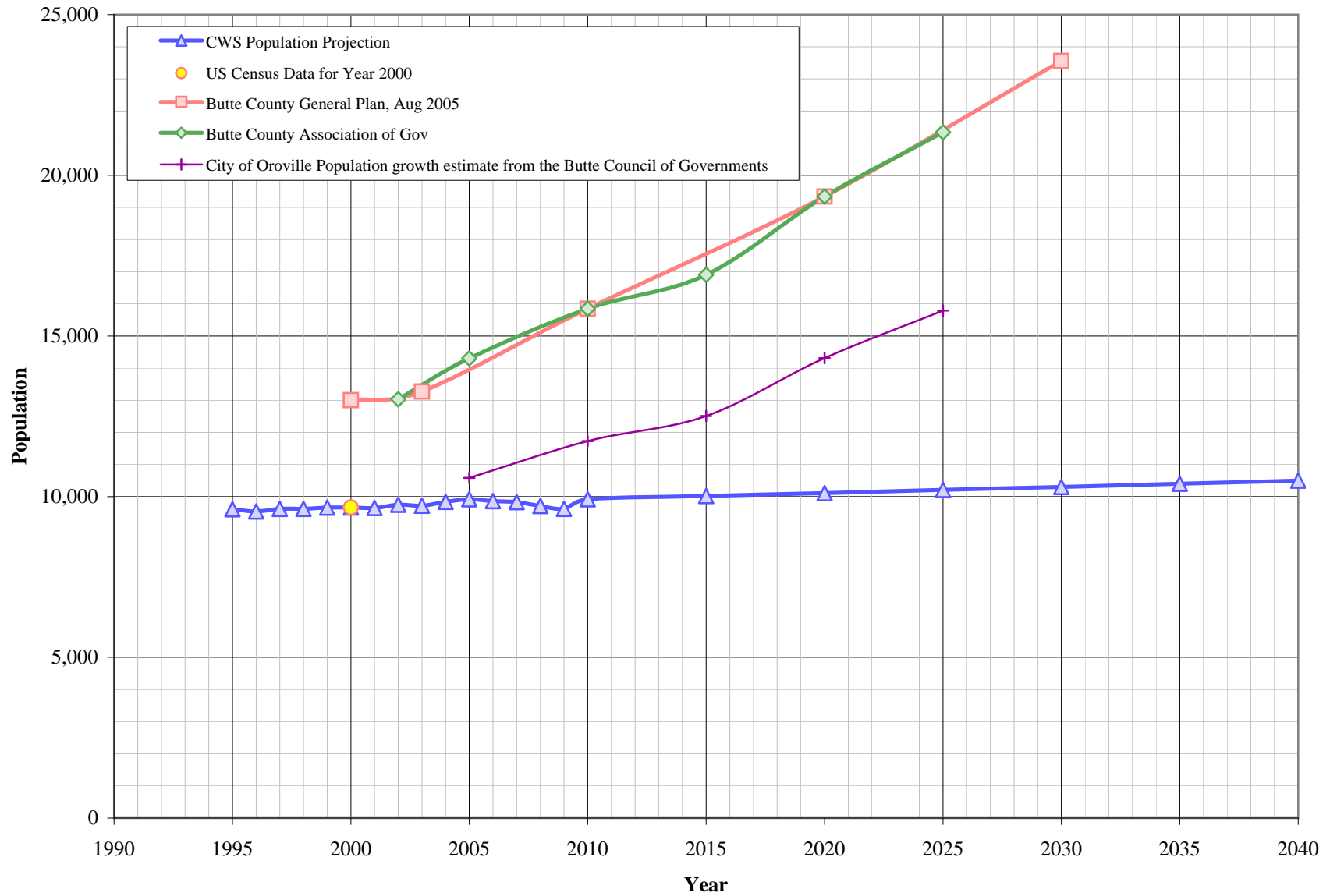
## US Census 2000 Tract Map Summary



| US Census 2000 Summary       |                     |            |               |
|------------------------------|---------------------|------------|---------------|
| Area                         | Census Tract Blocks | Population | Housing Units |
| District                     | 218                 | 9,663      | 4,227         |
| City of Oroville             | 237                 | 13,004     | 5,419         |
| Percent District of the City |                     | 74.3%      | 78.0%         |



# Oroville District Population Projections



**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**

Population as of the 2000 Average Annual Services  
 Estimated District Population based on 2000 U.S. Census Data & Annual Service Count

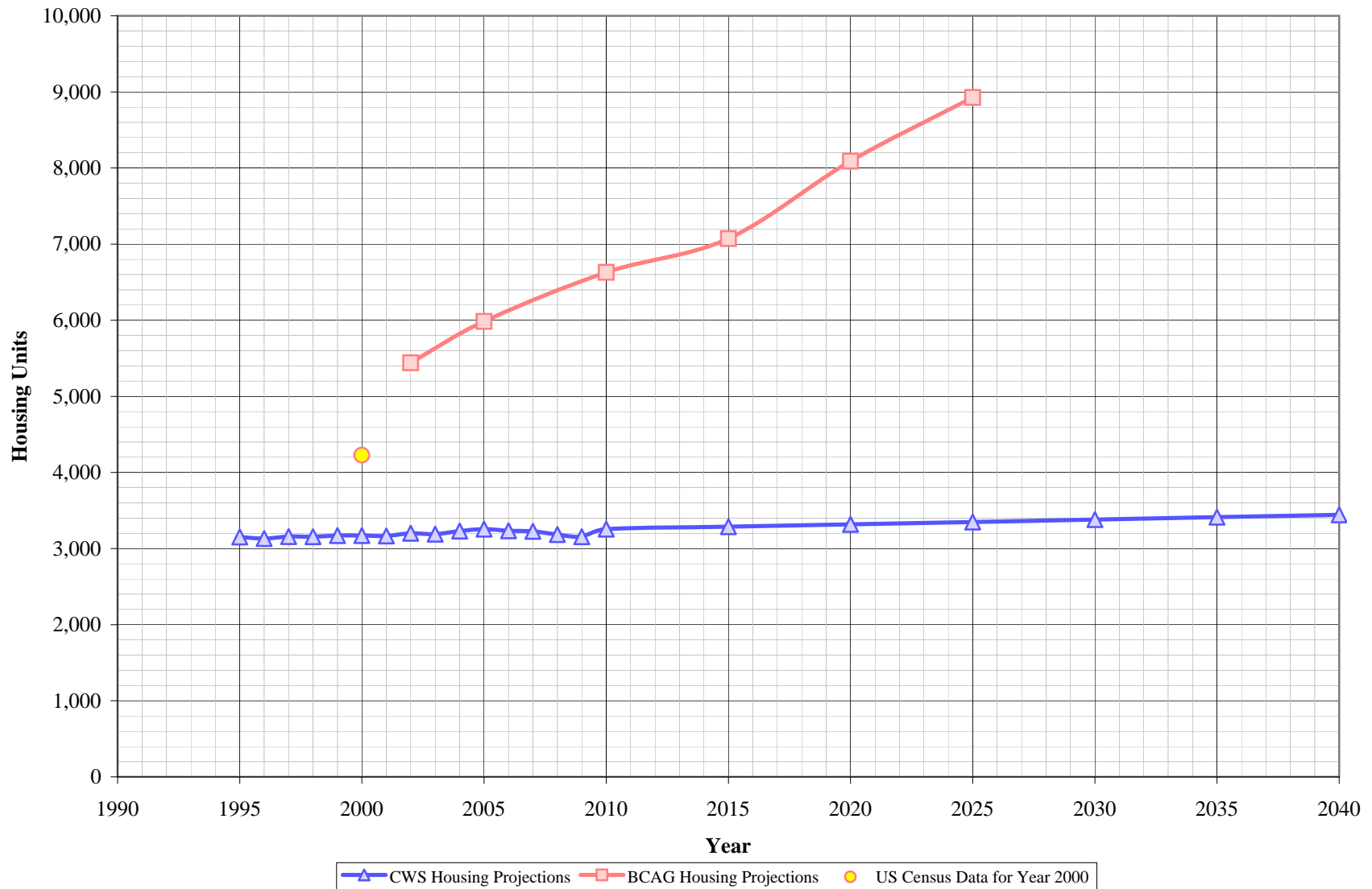
District Communities Served: Oroville

| Year | Single Family Residential Services (DU) | Multi Family Residential |                        |              | Flat Rate Residential Services (DU) | Total Residential Dwelling Units | Estimated District Population |
|------|-----------------------------------------|--------------------------|------------------------|--------------|-------------------------------------|----------------------------------|-------------------------------|
|      |                                         | Services                 | Residential Units (DU) | Unit Density |                                     |                                  |                               |
| 1995 | 1,982                                   | 14                       | 576                    | 41.1         | 594                                 | 3,152                            | 9,610                         |
| 1996 | 2,010                                   | 14                       | 576                    | 41.1         | 546                                 | 3,132                            | 9,540                         |
| 1997 | 2,070                                   | 14                       | 578                    | 41.3         | 510                                 | 3,158                            | 9,620                         |
| 1998 | 2,097                                   | 14                       | 580                    | 41.4         | 479                                 | 3,156                            | 9,620                         |
| 1999 | 2,153                                   | 14                       | 578                    | 41.3         | 439                                 | 3,170                            | 9,660                         |
| 2000 | 2,180                                   | 14                       | 583                    | 41.6         | 408                                 | 3,171                            | 9,663                         |
| 2001 | 2,200                                   | 14                       | 577                    | 41.2         | 389                                 | 3,166                            | 9,650                         |
| 2002 | 2,224                                   | 14                       | 575                    | 41.0         | 402                                 | 3,201                            | 9,750                         |
| 2003 | 2,238                                   | 14                       | 578                    | 41.3         | 373                                 | 3,189                            | 9,720                         |
| 2004 | 2,275                                   | 14                       | 601                    | 42.9         | 354                                 | 3,230                            | 9,840                         |
| 2005 | 2,302                                   | 14                       | 620                    | 44.3         | 333                                 | 3,255                            | 9,920                         |
| 2006 | 2,319                                   | 14                       | 595                    | 42.5         | 320                                 | 3,234                            | 9,860                         |
| 2007 | 2,342                                   | 14                       | 576                    | 41.1         | 308                                 | 3,226                            | 9,830                         |
| 2008 | 2,344                                   | 14                       | 576                    | 41.1         | 265                                 | 3,185                            | 9,710                         |
| 2009 | 2,358                                   | 14                       | 576                    | 41.1         | 222                                 | 3,156                            | 9,620                         |
| 2010 | 2,583                                   | 14                       | 673                    | 48.0         | 0                                   | 3,256                            | 9,920                         |
| 2015 | 2,601                                   | 14                       | 686                    | 48.6         | 0                                   | 3,287                            | 10,020                        |
| 2020 | 2,618                                   | 14                       | 699                    | 49.2         | 0                                   | 3,318                            | 10,110                        |
| 2025 | 2,636                                   | 14                       | 713                    | 49.9         | 0                                   | 3,349                            | 10,210                        |
| 2030 | 2,654                                   | 14                       | 727                    | 50.5         | 0                                   | 3,380                            | 10,300                        |
| 2035 | 2,671                                   | 14                       | 741                    | 51.1         | 0                                   | 3,412                            | 10,400                        |
| 2040 | 2,689                                   | 15                       | 755                    | 51.7         | 0                                   | 3,444                            | 10,500                        |

| US Census 2000 |               | Calculated Persons per CWS DU | Calculated Persons per US Census Housing Unit |
|----------------|---------------|-------------------------------|-----------------------------------------------|
| Population     | Housing Units |                               |                                               |

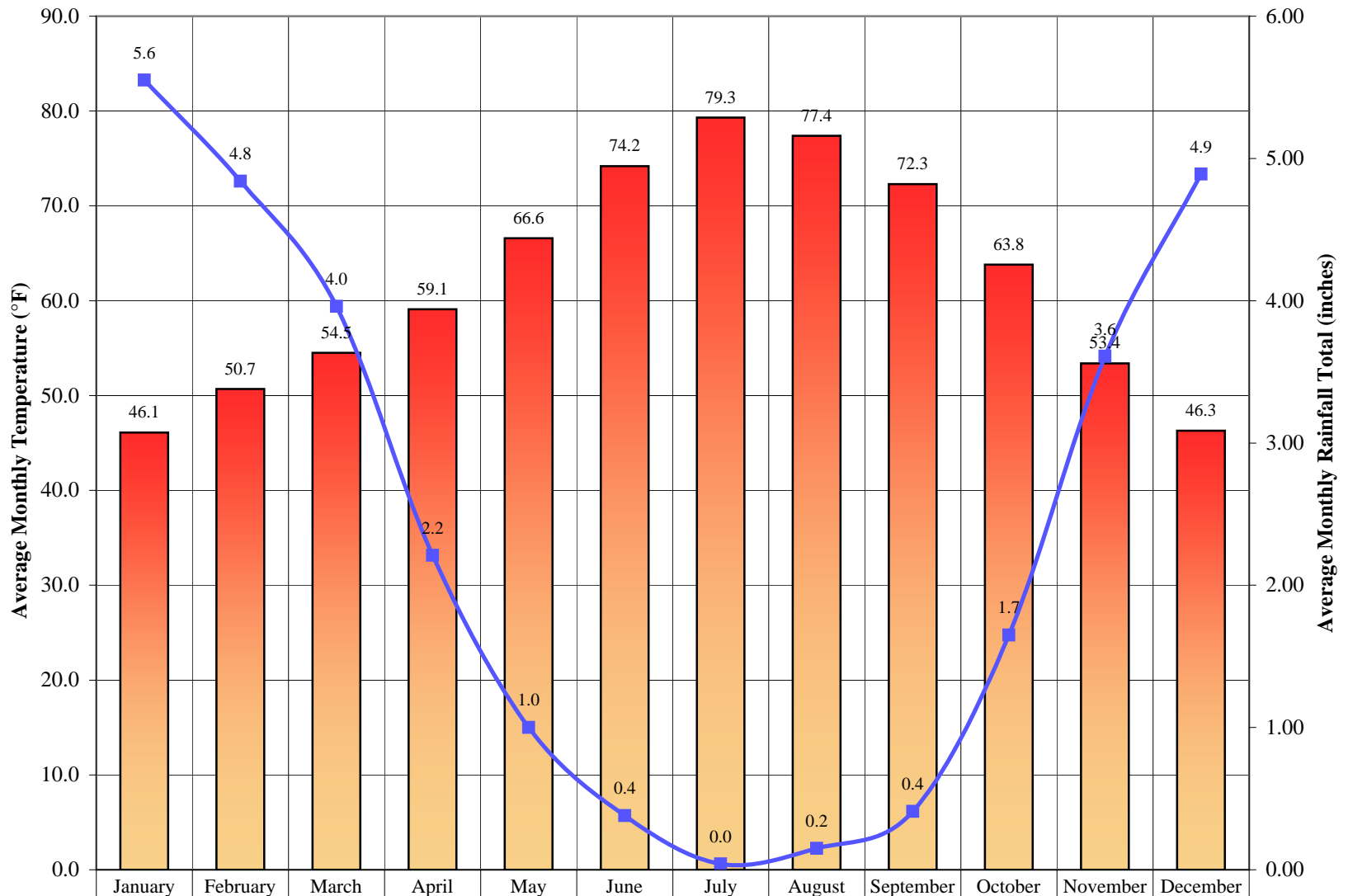
|       |       |       |       |
|-------|-------|-------|-------|
| 9,663 | 4,227 | 3,048 | 2,286 |
|-------|-------|-------|-------|

# Oroville District Housing Projections



# Oroville District

## Average Monthly Temperature and Rainfall

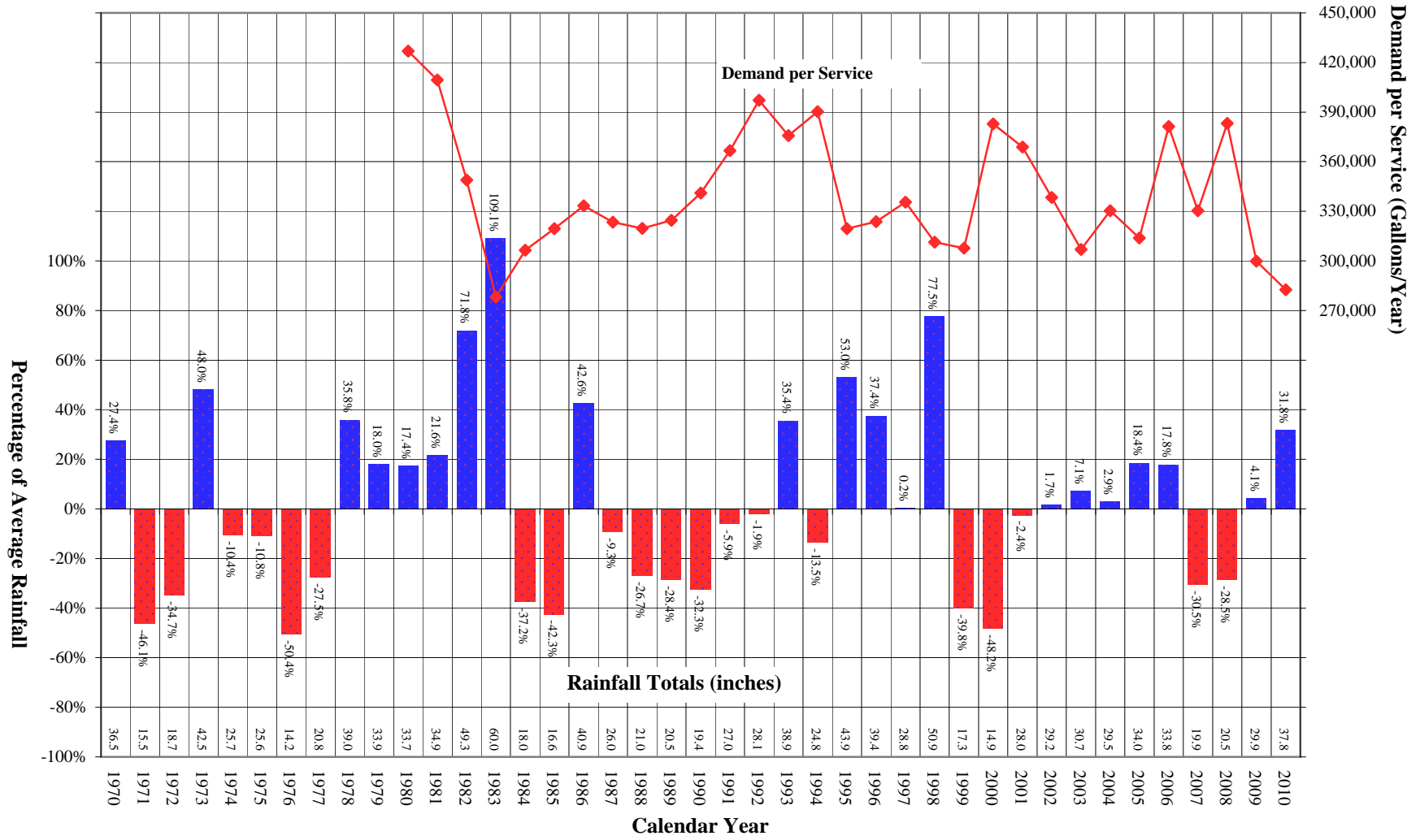


|             |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Temperature | 46.1 | 50.7 | 54.5 | 59.1 | 66.6 | 74.2 | 79.3 | 77.4 | 72.3 | 63.8 | 53.4 | 46.3 |
| Rainfall    | 5.55 | 4.84 | 3.96 | 2.21 | 1.00 | 0.38 | 0.04 | 0.15 | 0.41 | 1.65 | 3.61 | 4.89 |

# Oroville District

## Comparison of Annual Rainfall Totals to Historical Average

Average Annual Rainfall = 29.70 inches



## California Water Service Company - Oroville District

### Water Supply and Demand Analysis and Projections

Worksheet 20

Temperature &amp; Rainfall History (Fahrenheit, Inches)

| Year | Annual Average Temp. | Annual Average Rainfall | Rainfall Percent Variation | Demand per Service (Gal / Yr) | Percent of Average Demand | Year | Annual Average Temp. | Annual Average Rainfall | Rainfall Percent Variation | Demand per Service (Gal / Yr) | Percent of Average Demand |
|------|----------------------|-------------------------|----------------------------|-------------------------------|---------------------------|------|----------------------|-------------------------|----------------------------|-------------------------------|---------------------------|
| 1970 | 63.6                 | 36.54                   | 27.4%                      |                               |                           | 1995 | 59.6                 | 43.91                   | 53.0%                      | 319,530                       | 93.6%                     |
| 1971 | 61.7                 | 15.46                   | -46.1%                     |                               |                           | 1996 | 61.3                 | 39.43                   | 37.4%                      | 323,726                       | 94.9%                     |
| 1972 | 64.0                 | 18.73                   | -34.7%                     |                               |                           | 1997 | 63.2                 | 28.76                   | 0.2%                       | 335,461                       | 98.3%                     |
| 1973 | 63.2                 | 42.46                   | 48.0%                      |                               |                           | 1998 | 61.1                 | 50.92                   | 77.5%                      | 311,317                       | 91.2%                     |
| 1974 | 62.9                 | 25.72                   | -10.4%                     |                               |                           | 1999 | 61.1                 | 17.27                   | -39.8%                     | 307,764                       | 90.2%                     |
| 1975 | 62.5                 | 25.60                   | -10.8%                     |                               |                           | 2000 | 63.0                 | 14.87                   | -48.2%                     | 382,795                       | 112.2%                    |
| 1976 | -                    | 14.22                   | -50.4%                     |                               |                           | 2001 | 63.8                 | 27.99                   | -2.4%                      | 368,873                       | 108.1%                    |
| 1977 | -                    | 20.81                   | -27.5%                     |                               |                           | 2002 | 62.3                 | 29.18                   | 1.7%                       | 338,320                       | 99.2%                     |
| 1978 | -                    | 38.97                   | 35.8%                      |                               |                           | 2003 | 63.9                 | 30.72                   | 7.1%                       | 306,923                       | 90.0%                     |
| 1979 | -                    | 33.85                   | 18.0%                      |                               |                           | 2004 | 62.5                 | 29.51                   | 2.9%                       | 330,354                       | 96.8%                     |
| 1980 | -                    | 33.67                   | 17.4%                      | 426,936                       | 125.1%                    | 2005 | 61.6                 | 33.97                   | 18.4%                      | 313,870                       | 92.0%                     |
| 1981 | -                    | 34.90                   | 21.6%                      | 409,505                       | 120.0%                    | 2006 | 62.6                 | 33.79                   | 17.8%                      | 381,351                       | 111.8%                    |
| 1982 | -                    | 49.28                   | 71.8%                      | 348,859                       | 102.2%                    | 2007 | 62.2                 | 19.94                   | -30.5%                     | 330,374                       | 96.8%                     |
| 1983 | 61.6                 | 59.98                   | 109.1%                     | 278,145                       | 81.5%                     | 2008 | 62.4                 | 20.50                   | -28.5%                     | 383,247                       | 112.3%                    |
| 1984 | 63.0                 | 18.01                   | -37.2%                     | 306,502                       | 89.8%                     | 2009 | 61.9                 | 29.86                   | 4.1%                       | 299,880                       | 87.9%                     |
| 1985 | 60.0                 | 16.55                   | -42.3%                     | 319,449                       | 93.6%                     | 2010 | 59.3                 | 37.80                   | 31.8%                      | 282,621                       | 82.8%                     |
| 1986 | 61.7                 | 40.90                   | 42.6%                      | 333,320                       | 97.7%                     | 2011 |                      |                         |                            |                               |                           |
| 1987 | 63.3                 | 26.03                   | -9.3%                      | 323,408                       | 94.8%                     | 2012 |                      |                         |                            |                               |                           |
| 1988 | 60.2                 | 21.03                   | -26.7%                     | 319,656                       | 93.7%                     | 2013 |                      |                         |                            |                               |                           |
| 1989 | 60.6                 | 20.53                   | -28.4%                     | 324,606                       | 95.1%                     | 2014 |                      |                         |                            |                               |                           |
| 1990 | 61.3                 | 19.42                   | -32.3%                     | 340,964                       | 99.9%                     | 2015 |                      |                         |                            |                               |                           |
| 1991 | 60.5                 | 26.99                   | -5.9%                      | 366,615                       | 107.4%                    | 2016 |                      |                         |                            |                               |                           |
| 1992 | 62.2                 | 28.14                   | -1.9%                      | 397,100                       | 116.4%                    | 2017 |                      |                         |                            |                               |                           |
| 1993 | 61.5                 | 38.85                   | 35.4%                      | 375,750                       | 110.1%                    | 2018 |                      |                         |                            |                               |                           |
| 1994 | 60.4                 | 24.83                   | -13.5%                     | 390,183                       | 114.4%                    | 2019 |                      |                         |                            |                               |                           |

Source: Western Regional Climate Center:

<http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca6521>

| Calendar Year               | Average Water Year | Normal Water Year | Single-Dry Water Year | Multiple-Dry Water Years |         |         |         |
|-----------------------------|--------------------|-------------------|-----------------------|--------------------------|---------|---------|---------|
|                             |                    |                   |                       | 1                        | 2       | 3       | 4       |
|                             | -                  | 2004              | 2000                  | 1988                     | 1989    | 1990    | 1991    |
| Demand per Service (gal/yr) | 341,207            | 330,354           | 382,795               | 319,656                  | 324,606 | 340,964 | 366,615 |
| Difference from Average     | 100.0%             | 100.0%            | 115.9%                | 96.8%                    | 98.3%   | 103.2%  | 111.0%  |

## California Water Service Company - Oroville District Water Supply and Demand Analysis and Projections

## Temperature Data

| Station:(046521) OROVILLE   |                  |      |      |                |                           |      |                           |                  |      |             |      |            |         |            |        |
|-----------------------------|------------------|------|------|----------------|---------------------------|------|---------------------------|------------------|------|-------------|------|------------|---------|------------|--------|
| From Year=1953 To Year=2010 |                  |      |      |                |                           |      |                           |                  |      |             |      |            |         |            |        |
|                             | Monthly Averages |      |      | Daily Extremes |                           |      |                           | Monthly Extremes |      |             |      | Max. Temp. |         | Min. Temp. |        |
|                             | Max.             | Min. | Mean | High           | Date                      | Low  | Date                      | Highest Mean     | Year | Lowest Mean | Year | >= 90 F    | <= 32 F | <= 32 F    | <= 0 F |
|                             | F                | F    | F    | F              | dd/yyyy<br>or<br>yyyymmdd | F    | dd/yyyy<br>or<br>yyyymmdd | F                | -    | F           | -    | # Days     | # Days  | # Days     | # Days |
| January                     | 55.0             | 37.2 | 46.1 | 82.0           | 16/2009                   | 22.0 | 2/1960                    | 52.9             | 2003 | 41.2        | 1985 | 0          | 0       | 8          | 0      |
| February                    | 60.8             | 40.6 | 50.7 | 82.0           | 28/1985                   | 22.0 | 3/1957                    | 57.2             | 1963 | 45.8        | 1990 | 0          | 0       | 3          | 0      |
| March                       | 65.5             | 43.5 | 54.5 | 88.0           | 28/1955                   | 26.0 | 6/1956                    | 59.9             | 2004 | 48.1        | 1991 | 0          | 0       | 1          | 0      |
| April                       | 71.8             | 46.3 | 59.1 | 96.0           | 27/2004                   | 29.0 | 2/1955                    | 65.5             | 1987 | 50.9        | 1967 | 1          | 0       | 0          | 0      |
| May                         | 80.9             | 52.4 | 66.6 | 104.0          | 31/2001                   | 30.0 | 12/1999                   | 74.2             | 2001 | 58.9        | 2010 | 6          | 0       | 0          | 0      |
| June                        | 89.9             | 58.5 | 74.2 | 115.0          | 16/1961                   | 35.0 | 11/1995                   | 79.2             | 1961 | 69.3        | 1953 | 16         | 0       | 0          | 0      |
| July                        | 96.5             | 62.2 | 79.3 | 115.0          | 15/1972                   | 45.0 | 3/2010                    | 83.5             | 1967 | 73.5        | 1987 | 27         | 0       | 0          | 0      |
| August                      | 94.7             | 60.0 | 77.4 | 113.0          | 11/1971                   | 42.0 | 31/1995                   | 85.0             | 1967 | 72.6        | 1991 | 25         | 0       | 0          | 0      |
| September                   | 88.9             | 55.6 | 72.3 | 108.0          | 11/1953                   | 40.0 | 16/1987                   | 77.7             | 1967 | 63.6        | 1986 | 16         | 0       | 0          | 0      |
| October                     | 78.6             | 49.0 | 63.8 | 102.0          | 2/2001                    | 27.0 | 27/2010                   | 68.8             | 1964 | 58.7        | 1984 | 4          | 0       | 0          | 0      |
| November                    | 64.7             | 42.1 | 53.4 | 90.0           | 2/1967                    | 23.0 | 26/2010                   | 58.0             | 1967 | 46.2        | 1994 | 0          | 0       | 2          | 0      |
| December                    | 55.2             | 37.4 | 46.3 | 76.0           | 27/1967                   | 12.0 | 22/1990                   | 51.9             | 1958 | 41.0        | 1990 | 0          | 0       | 7          | 0      |
| Annual                      | 75.2             | 48.7 | 62.0 | 115.0          | 19610616                  | 12.0 | 19901222                  | 63.8             | 1966 | 59.3        | 2010 | 93         | 0       | 21         | 0      |

|                            | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Total |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| Monthly Average ETo Report | 1.24 | 1.96 | 3.41 | 5.10 | 6.82 | 7.80 | 8.06 | 7.13 | 5.40 | 3.72 | 1.80 | 0.93 | 53.37 |

1) California Irrigation Management Information System (CIMIS), <http://www.cimis.water.ca.gov/cimis/welcome.jsp>, EvapoTranspiration (Eto) Zones Map, Zone 12

**California Water Service Company - Oroville District  
Water Supply and Demand Analysis and Projections**

Worksheet 20

## Precipitation Data

| Station:(046521) OROVILLE   |               |       |      |       |      |            |                           |             |             |             |             |                |      |      |
|-----------------------------|---------------|-------|------|-------|------|------------|---------------------------|-------------|-------------|-------------|-------------|----------------|------|------|
| From Year=1953 To Year=2010 |               |       |      |       |      |            |                           |             |             |             |             |                |      |      |
|                             | Precipitation |       |      |       |      |            |                           |             |             |             |             | Total Snowfall |      |      |
|                             | Mean          | High  | Year | Low   | Year | 1 Day Max. |                           | >= 0.01 in. | >= 0.10 in. | >= 0.50 in. | >= 1.00 in. | Mean           | High | Year |
|                             | in.           | in.   | -    | in.   | -    | in.        | dd/yyyy<br>or<br>yyyymmdd | # Days      | # Days      | # Days      | # Days      | in.            | in.  | -    |
| January                     | 5.55          | 16.29 | 1995 | 0.00  | 2007 | 3.79       | 10/1995                   | 11          | 8           | 4           | 2           | 0              | 1    | 1962 |
| February                    | 4.84          | 14.35 | 1998 | 0.20  | 1997 | 3.41       | 3/1998                    | 10          | 8           | 4           | 1           | 0              | 0    | 1954 |
| March                       | 3.96          | 14.58 | 1991 | 0.04  | 1956 | 2.62       | 1/1970                    | 9           | 7           | 3           | 1           | 0              | 0    | 1954 |
| April                       | 2.21          | 6.89  | 1963 | 0.00  | 2008 | 2.00       | 2/1996                    | 7           | 5           | 2           | 0           | 0              | 0    | 1954 |
| May                         | 1.00          | 4.20  | 1998 | 0.00  | 1969 | 2.00       | 16/1996                   | 4           | 2           | 1           | 0           | 0              | 0    | 1953 |
| June                        | 0.38          | 1.69  | 2007 | 0.00  | 1955 | 1.52       | 4/2009                    | 2           | 1           | 0           | 0           | 0              | 0    | 1953 |
| July                        | 0.04          | 1.60  | 1974 | 0.00  | 1953 | 1.59       | 8/1974                    | 0           | 0           | 0           | 0           | 0              | 0    | 1953 |
| August                      | 0.15          | 1.50  | 1993 | 0.00  | 1955 | 1.50       | 16/1993                   | 0           | 0           | 0           | 0           | 0              | 0    | 1953 |
| September                   | 0.41          | 3.46  | 1986 | 0.00  | 1953 | 1.94       | 24/1986                   | 1           | 1           | 0           | 0           | 0              | 0    | 1953 |
| October                     | 1.65          | 11.85 | 1962 | 0.00  | 1959 | 5.06       | 13/1962                   | 4           | 2           | 1           | 0           | 0              | 0    | 1953 |
| November                    | 3.61          | 10.38 | 1983 | 0.00  | 1959 | 2.89       | 30/1998                   | 8           | 6           | 3           | 1           | 0              | 0    | 1953 |
| December                    | 4.89          | 14.82 | 1955 | 0.00  | 1989 | 2.80       | 6/1955                    | 10          | 8           | 4           | 1           | 0              | 0    | 1953 |
| Annual                      | 28.69         | 59.98 | 1983 | 15.46 | 1971 | 5.06       | 19621013                  | 65          | 47          | 22          | 8           | 0              | 1    | 1962 |



**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**

Worksheet 21

**Groundwater Production Facilities**

| Unit No. | Design Capacity |          | Status |
|----------|-----------------|----------|--------|
|          | Active          | Inactive |        |
| 2-01     | 1,150           |          |        |
| 5-01     | 300             |          |        |
| 10-01    | 800             |          |        |
| 901-01   | 575             |          |        |

|              |   |   |   |
|--------------|---|---|---|
| Total units: | 4 | 4 | 0 |
|--------------|---|---|---|

|                       |       |       |   |
|-----------------------|-------|-------|---|
| Design Capacity (GPM) | 2,825 | 2,825 | 0 |
|-----------------------|-------|-------|---|

|                       |     |     |     |
|-----------------------|-----|-----|-----|
| Design Capacity (MGD) | 4.1 | 4.1 | 0.0 |
|-----------------------|-----|-----|-----|

|                       |       |       |   |
|-----------------------|-------|-------|---|
| Design Capacity (AFY) | 4,557 | 4,557 | 0 |
|-----------------------|-------|-------|---|

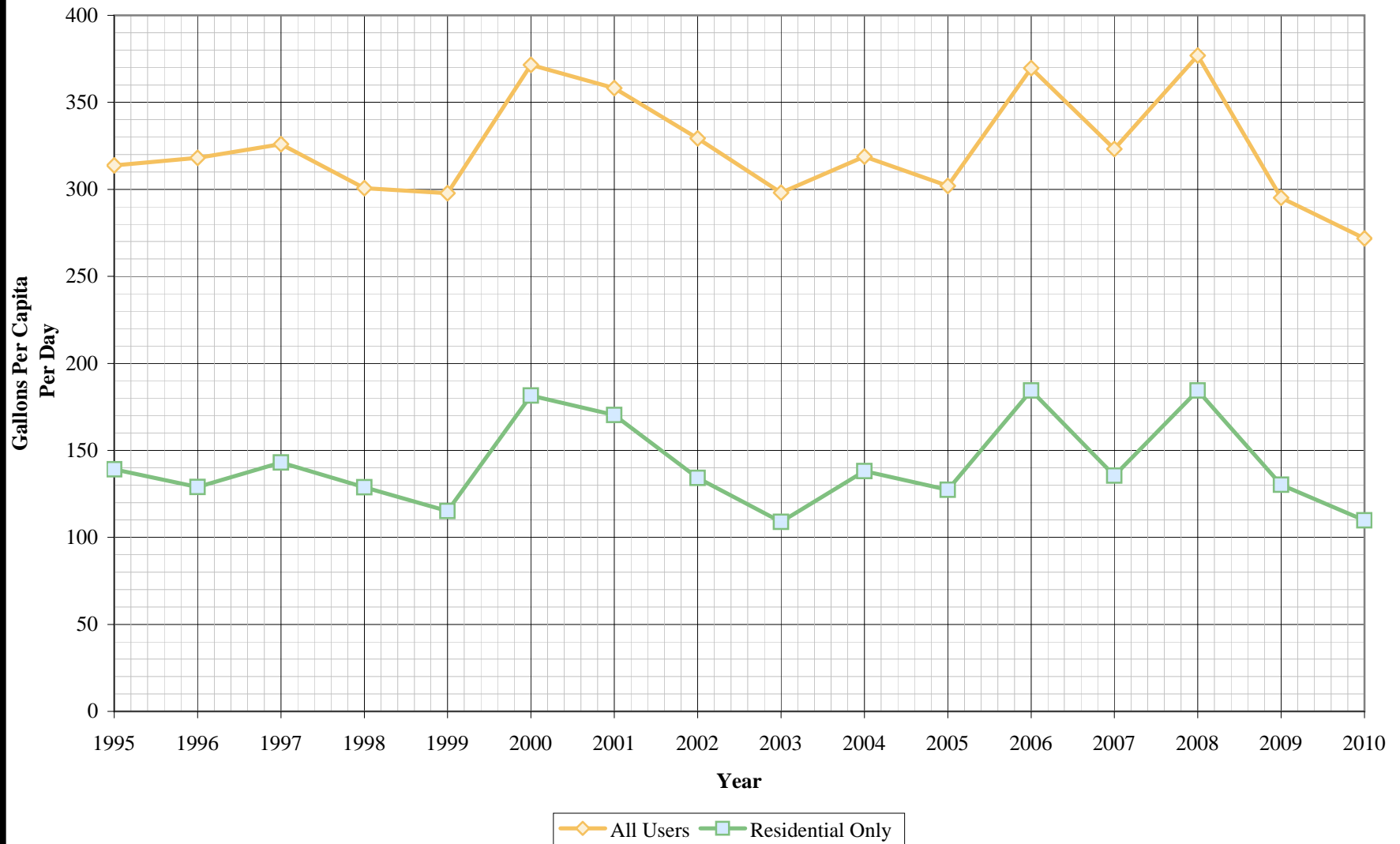
Notes:

1) Listed pump capacities on this worksheet represent design flowrates, actual flowrates are highly dependent on local system pressures, well characteristics, and other design criteria

2) Values in bold are estimated

Updated 1/1/2011

# Oroville District Per Capita Consumption



**California Water Service Company - Oroville District**  
**Water Supply and Demand Analysis and Projections**

**Per Capita Water Demand Calculation**

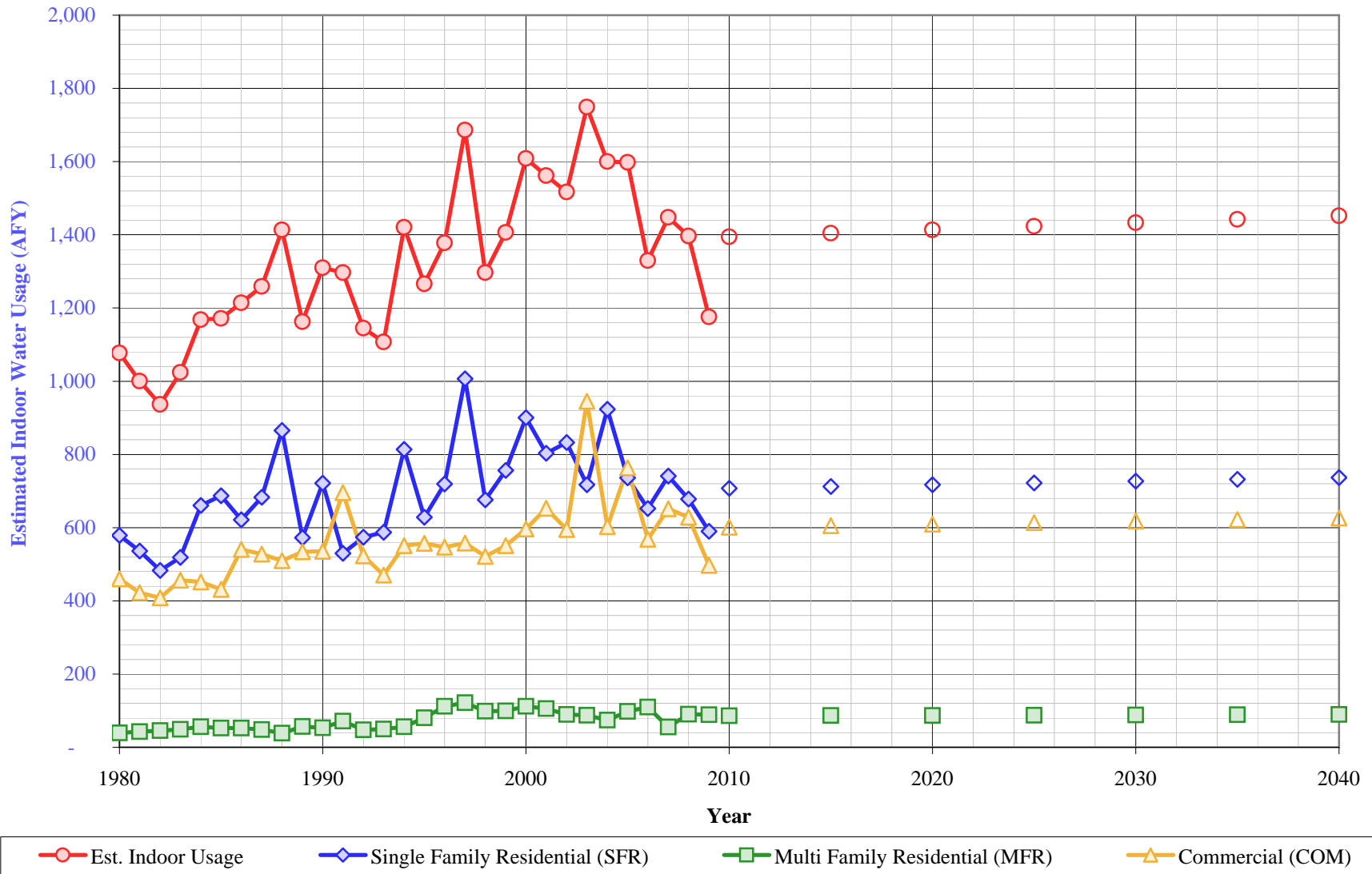
| Year        | All Users   |             |                            | Residential Only |             |                            |
|-------------|-------------|-------------|----------------------------|------------------|-------------|----------------------------|
|             | Usage (AFY) | Usage (MGY) | Gallons Per Capita Per Day | Usage (AFY)      | Usage (MGY) | Gallons Per Capita Per Day |
| 1995        | 3,378       | 1,101       | 314                        | 1,497            | 488         | 139                        |
| 1996        | 3,399       | 1,107       | 318                        | 1,378            | 449         | 129                        |
| 1997        | 3,513       | 1,145       | 326                        | 1,541            | 502         | 143                        |
| 1998        | 3,240       | 1,056       | 301                        | 1,388            | 452         | 129                        |
| 1999        | 3,223       | 1,050       | 298                        | 1,246            | 406         | 115                        |
| 2000        | 4,022       | 1,311       | 372                        | 1,964            | 640         | 181                        |
| 2001        | 3,871       | 1,261       | 358                        | 1,840            | 600         | 170                        |
| 2002        | 3,596       | 1,172       | 329                        | 1,465            | 477         | 134                        |
| 2003        | 3,246       | 1,058       | 298                        | 1,185            | 386         | 109                        |
| 2004        | 3,515       | 1,145       | 319                        | 1,523            | 496         | 138                        |
| 2005        | 3,355       | 1,093       | 302                        | 1,414            | 461         | 127                        |
| 2006        | 4,083       | 1,331       | 370                        | 2,037            | 664         | 184                        |
| 2007        | 3,559       | 1,160       | 323                        | 1,492            | 486         | 135                        |
| 2008        | 4,100       | 1,336       | 377                        | 2,006            | 654         | 184                        |
| 2009        | 3,181       | 1,037       | 295                        | 1,404            | 457         | 130                        |
| 2010        | 3,020       | 984         | 272                        | 1,219            | 397         | 110                        |
| 5 Yr. Avg.  | 3,589       | 1,169       | 327                        | 1,631            | 532         | 149                        |
| 10 Yr. Avg. | 3,553       | 1,158       | 324                        | 1,559            | 508         | 142                        |

Five year average is from years 2006 through 2010.

Ten year average is from years 2001 through 2010.

# Oroville Suburban District

## Estimated Indoor Water Usage



**California Water Service Company - Oroville District  
Water Supply and Demand Analysis and Projections**

**Estimated Indoor/Outdoor Water Usage**

| Year | Single Family Residential (SFR)                                                   |     |             |     |                                 |                        |             | Multi Family Residential (MFR) |                                           |     |                                                                          | Commercial (COM) |                     |                                                            |             | Est. Indoor Usage<br>AFY |   |
|------|-----------------------------------------------------------------------------------|-----|-------------|-----|---------------------------------|------------------------|-------------|--------------------------------|-------------------------------------------|-----|--------------------------------------------------------------------------|------------------|---------------------|------------------------------------------------------------|-------------|--------------------------|---|
|      | Metered Single Family Residential Indoor Use<br>(Annualized 90% of January Total) |     |             |     | Indoor Flat Rate<br>Usage (AFY) | Total SFR Indoor Usage |             |                                | Multi Family Residential<br>January Usage |     | Multi Family Residential Indoor Use<br>(Annualized 90% of January Total) |                  | Commercial<br>(CCF) | Commercial Indoor Use<br>(Annualized 90% of January Total) |             |                          |   |
|      | JAN (CCF)                                                                         | AFY | AFY/Service |     |                                 | AFY                    | GPD/Service | %                              | (CCF)                                     | AFY | GPD/Service                                                              | %                |                     | AFY                                                        | GPD/Service |                          | % |
| 1980 | 10,975                                                                            | 272 | 0.20        | 306 | 579                             | 211                    | 24%         | 1,570                          | 39                                        | 73% | 18,543                                                                   | 460              | 698                 | 62%                                                        | 1077        |                          |   |
| 1981 | 10,183                                                                            | 252 | 0.18        | 284 | 536                             | 194                    | 22%         | 1,709                          | 42                                        | 64% | 17,020                                                                   | 422              | 634                 | 63%                                                        | 1,000       |                          |   |
| 1982 | 9,550                                                                             | 237 | 0.16        | 246 | 483                             | 174                    | 25%         | 1,830                          | 45                                        | 61% | 16,473                                                                   | 408              | 610                 | 63%                                                        | 937         |                          |   |
| 1983 | 10,402                                                                            | 258 | 0.17        | 261 | 519                             | 187                    | 38%         | 1,970                          | 49                                        | 74% | 18,423                                                                   | 457              | 668                 | 70%                                                        | 1,024       |                          |   |
| 1984 | 13,058                                                                            | 324 | 0.21        | 337 | 661                             | 237                    | 49%         | 2,251                          | 56                                        | 59% | 18,218                                                                   | 452              | 662                 | 66%                                                        | 1,168       |                          |   |
| 1985 | 13,637                                                                            | 338 | 0.22        | 349 | 687                             | 246                    | 48%         | 2,123                          | 53                                        | 59% | 17,392                                                                   | 431              | 631                 | 56%                                                        | 1,171       |                          |   |
| 1986 | 12,820                                                                            | 318 | 0.20        | 304 | 622                             | 223                    | 48%         | 2,101                          | 52                                        | 57% | 21,798                                                                   | 540              | 800                 | 68%                                                        | 1,214       |                          |   |
| 1987 | 15,258                                                                            | 378 | 0.23        | 378 | 683                             | 245                    | 49%         | 1,958                          | 49                                        | 54% | 21,286                                                                   | 528              | 780                 | 65%                                                        | 1,259       |                          |   |
| 1988 | 19,803                                                                            | 491 | 0.31        | 374 | 865                             | 308                    | 63%         | 1,562                          | 39                                        | 50% | 20,547                                                                   | 509              | 737                 | 65%                                                        | 1,414       |                          |   |
| 1989 | 13,059                                                                            | 324 | 0.20        | 249 | 572                             | 203                    | 40%         | 2,274                          | 56                                        | 64% | 21,536                                                                   | 534              | 752                 | 66%                                                        | 1,163       |                          |   |
| 1990 | 16,840                                                                            | 418 | 0.26        | 304 | 721                             | 255                    | 49%         | 2,133                          | 53                                        | 58% | 21,606                                                                   | 536              | 725                 | 63%                                                        | 1,310       |                          |   |
| 1991 | 12,672                                                                            | 314 | 0.19        | 216 | 530                             | 188                    | 28%         | 2,877                          | 71                                        | 81% | 28,043                                                                   | 695              | 928                 | 84%                                                        | 1,297       |                          |   |
| 1992 | 14,568                                                                            | 361 | 0.21        | 213 | 574                             | 203                    | 26%         | 1,924                          | 48                                        | 61% | 21,097                                                                   | 523              | 701                 | 64%                                                        | 1,145       |                          |   |
| 1993 | 15,559                                                                            | 386 | 0.21        | 201 | 587                             | 208                    | 29%         | 1,992                          | 49                                        | 59% | 18,976                                                                   | 470              | 631                 | 59%                                                        | 1,107       |                          |   |
| 1994 | 21,872                                                                            | 542 | 0.28        | 272 | 814                             | 291                    | 40%         | 2,251                          | 56                                        | 60% | 22,229                                                                   | 551              | 729                 | 60%                                                        | 1,421       |                          |   |
| 1995 | 17,195                                                                            | 426 | 0.22        | 202 | 628                             | 224                    | 46%         | 3,244                          | 80                                        | 62% | 22,477                                                                   | 557              | 734                 | 62%                                                        | 1,266       |                          |   |
| 1996 | 19,810                                                                            | 491 | 0.24        | 228 | 719                             | 254                    | 58%         | 4,519                          | 112                                       | 76% | 22,046                                                                   | 547              | 720                 | 59%                                                        | 1,378       |                          |   |
| 1997 | 28,005                                                                            | 694 | 0.34        | 312 | 1,007                           | 353                    | 73%         | 4,903                          | 122                                       | 75% | 22,496                                                                   | 558              | 717                 | 62%                                                        | 1,686       |                          |   |
| 1998 | 18,689                                                                            | 463 | 0.22        | 213 | 676                             | 237                    | 54%         | 3,976                          | 99                                        | 67% | 21,045                                                                   | 522              | 667                 | 61%                                                        | 1,297       |                          |   |
| 1999 | 21,044                                                                            | 522 | 0.24        | 235 | 756                             | 265                    | 70%         | 4,001                          | 99                                        | 62% | 22,216                                                                   | 551              | 699                 | 61%                                                        | 1,406       |                          |   |
| 2000 | 25,182                                                                            | 624 | 0.29        | 276 | 900                             | 315                    | 50%         | 4,506                          | 112                                       | 76% | 24,049                                                                   | 596              | 747                 | 63%                                                        | 1,608       |                          |   |
| 2001 | 22,714                                                                            | 563 | 0.26        | 240 | 804                             | 280                    | 47%         | 4,255                          | 105                                       | 83% | 26,331                                                                   | 653              | 820                 | 69%                                                        | 1,562       |                          |   |
| 2002 | 24,456                                                                            | 606 | 0.27        | 227 | 833                             | 289                    | 62%         | 3,596                          | 89                                        | 70% | 23,989                                                                   | 595              | 741                 | 57%                                                        | 1,517       |                          |   |
| 2003 | 21,947                                                                            | 544 | 0.24        | 173 | 717                             | 249                    | 68%         | 3,516                          | 87                                        | 69% | 38,117                                                                   | 945              | 1,162               | 85%                                                        | 1,749       |                          |   |
| 2004 | 28,933                                                                            | 717 | 0.32        | 206 | 923                             | 320                    | 67%         | 2,997                          | 74                                        | 55% | 24,291                                                                   | 602              | 732                 | 59%                                                        | 1,600       |                          |   |
| 2005 | 23,604                                                                            | 585 | 0.25        | 151 | 736                             | 255                    | 58%         | 3,957                          | 98                                        | 67% | 30,791                                                                   | 763              | 915                 | 77%                                                        | 1,598       |                          |   |
| 2006 | 21,286                                                                            | 528 | 0.23        | 124 | 652                             | 228                    | 34%         | 4,420                          | 110                                       | 78% | 22,910                                                                   | 568              | 695                 | 57%                                                        | 1,330       |                          |   |
| 2007 | 24,551                                                                            | 609 | 0.26        | 133 | 741                             | 256                    | 54%         | 2,229                          | 55                                        | 45% | 26,264                                                                   | 651              | 850                 | 65%                                                        | 1,448       |                          |   |
| 2008 | 22,712                                                                            | 563 | 0.24        | 115 | 678                             | 235                    | 36%         | 3,646                          | 90                                        | 70% | 25,347                                                                   | 628              | 834                 | 64%                                                        | 1,397       |                          |   |
| 2009 | 20,059                                                                            | 497 | 0.21        | 93  | 590                             | 203                    | 47%         | 3,573                          | 89                                        | 65% | 20,054                                                                   | 497              | 657                 | 59%                                                        | 1,176       |                          |   |
| 2010 | ---                                                                               | --- | ---         | --- | 708                             | 245                    | 47%         | ---                            | 86                                        | 64% | ---                                                                      | 601              | 746                 | 65%                                                        | 1,395       |                          |   |
| 2015 | ---                                                                               | --- | ---         | --- | 712                             | 245                    | 47%         | ---                            | 86                                        | 64% | ---                                                                      | 605              | 746                 | 65%                                                        | 1,404       |                          |   |
| 2020 | ---                                                                               | --- | ---         | --- | 717                             | 245                    | 47%         | ---                            | 87                                        | 64% | ---                                                                      | 610              | 746                 | 65%                                                        | 1,414       |                          |   |
| 2025 | ---                                                                               | --- | ---         | --- | 722                             | 245                    | 47%         | ---                            | 88                                        | 64% | ---                                                                      | 614              | 746                 | 65%                                                        | 1,423       |                          |   |
| 2030 | ---                                                                               | --- | ---         | --- | 727                             | 245                    | 47%         | ---                            | 88                                        | 64% | ---                                                                      | 618              | 746                 | 65%                                                        | 1,433       |                          |   |
| 2035 | ---                                                                               | --- | ---         | --- | 732                             | 245                    | 47%         | ---                            | 89                                        | 64% | ---                                                                      | 622              | 746                 | 65%                                                        | 1,442       |                          |   |
| 2040 | ---                                                                               | --- | ---         | --- | 737                             | 245                    | 47%         | ---                            | 89                                        | 64% | ---                                                                      | 626              | 746                 | 65%                                                        | 1,452       |                          |   |

# California Water Service Company - Oroville District

## Water Supply and Demand Analysis and Projections

### Comparison of Projected Demand and Conservation Savings Between SBx7-7 Compliance Targets and Actual Proposed Programs

| Year              | SBx7-7 Compliance Target (gpcd) | Anticipated GPCD with Proposed Programs* | Estimated Population | Undadjusted Baseline Demand (AFY) | SBx7-7 Compliance Target Demand (AFY) | Anticipated Demand with Proposed Programs (AFY) | Compliance Target Savings Requirement (AFY) | Savings Due to Proposed Programs (AFY) |
|-------------------|---------------------------------|------------------------------------------|----------------------|-----------------------------------|---------------------------------------|-------------------------------------------------|---------------------------------------------|----------------------------------------|
| 2005-2009 Average | 333                             | 333                                      | 9,788                | 3,656                             | 3,656                                 | 3,656                                           | 0                                           | 0                                      |
| 2010              | 333                             | 333                                      | 9,920                | 3,705                             | 3,705                                 | 3,705                                           | 0                                           | 0                                      |
| 2011              | 327                             | 328                                      | 9,940                | 3,712                             | 3,640                                 | 3,652                                           | 72                                          | 60                                     |
| 2012              | 320                             | 324                                      | 9,960                | 3,720                             | 3,575                                 | 3,615                                           | 145                                         | 105                                    |
| 2013              | 314                             | 320                                      | 9,980                | 3,727                             | 3,510                                 | 3,577                                           | 218                                         | 150                                    |
| 2014              | 307                             | 315                                      | 10,000               | 3,735                             | 3,444                                 | 3,528                                           | 291                                         | 206                                    |
| 2015              | 301                             | 309                                      | 10,020               | 3,742                             | 3,378                                 | 3,468                                           | 364                                         | 274                                    |
| 2016              | 294                             | 301                                      | 10,040               | 3,750                             | 3,311                                 | 3,383                                           | 439                                         | 367                                    |
| 2017              | 288                             | 293                                      | 10,050               | 3,754                             | 3,240                                 | 3,294                                           | 514                                         | 460                                    |
| 2018              | 281                             | 284                                      | 10,070               | 3,761                             | 3,172                                 | 3,208                                           | 589                                         | 553                                    |
| 2019              | 275                             | 276                                      | 10,090               | 3,768                             | 3,104                                 | 3,122                                           | 665                                         | 647                                    |
| 2020              | 268                             | 268                                      | 10,110               | 3,776                             | 3,035                                 | 3,035                                           | 741                                         | 741                                    |
| 2021              | 268                             | 268                                      | 10,130               | 3,783                             | 3,041                                 | 3,041                                           | 742                                         | 742                                    |
| 2022              | 268                             | 268                                      | 10,150               | 3,791                             | 3,047                                 | 3,047                                           | 744                                         | 744                                    |
| 2023              | 268                             | 268                                      | 10,170               | 3,798                             | 3,053                                 | 3,053                                           | 745                                         | 745                                    |
| 2024              | 268                             | 268                                      | 10,190               | 3,806                             | 3,059                                 | 3,059                                           | 747                                         | 747                                    |
| 2025              | 268                             | 268                                      | 10,210               | 3,813                             | 3,065                                 | 3,065                                           | 748                                         | 748                                    |
| 2026              | 268                             | 268                                      | 10,230               | 3,821                             | 3,071                                 | 3,071                                           | 750                                         | 750                                    |
| 2027              | 268                             | 268                                      | 10,240               | 3,825                             | 3,074                                 | 3,074                                           | 750                                         | 750                                    |
| 2028              | 268                             | 268                                      | 10,260               | 3,832                             | 3,080                                 | 3,080                                           | 752                                         | 752                                    |
| 2029              | 268                             | 268                                      | 10,280               | 3,839                             | 3,086                                 | 3,086                                           | 753                                         | 753                                    |
| 2030              | 268                             | 268                                      | 10,300               | 3,847                             | 3,092                                 | 3,092                                           | 755                                         | 755                                    |
| 2031              | 268                             | 268                                      | 10,320               | 3,854                             | 3,098                                 | 3,098                                           | 756                                         | 756                                    |
| 2032              | 268                             | 268                                      | 10,340               | 3,862                             | 3,104                                 | 3,104                                           | 758                                         | 758                                    |
| 2033              | 268                             | 268                                      | 10,360               | 3,869                             | 3,110                                 | 3,110                                           | 759                                         | 759                                    |
| 2034              | 268                             | 268                                      | 10,380               | 3,877                             | 3,116                                 | 3,116                                           | 761                                         | 761                                    |
| 2035              | 268                             | 268                                      | 10,400               | 3,884                             | 3,122                                 | 3,122                                           | 762                                         | 762                                    |
| 2036              | 268                             | 268                                      | 10,420               | 3,892                             | 3,128                                 | 3,128                                           | 764                                         | 764                                    |
| 2037              | 268                             | 268                                      | 10,440               | 3,899                             | 3,134                                 | 3,134                                           | 765                                         | 765                                    |
| 2038              | 268                             | 268                                      | 10,460               | 3,907                             | 3,140                                 | 3,140                                           | 767                                         | 767                                    |
| 2039              | 268                             | 268                                      | 10,480               | 3,914                             | 3,146                                 | 3,146                                           | 768                                         | 768                                    |
| 2040              | 268                             | 268                                      | 10,500               | 3,922                             | 3,152                                 | 3,152                                           | 770                                         | 770                                    |

\*Note: The district is not projected to achieve its district-specific 2015 SBx7-7 compliance target through the proposed 2011-2015 conservation program portfolio. The district will achieve compliance with its 2015 SBx7-7 compliance target through a regional alliance. For the purpose of this analysis it is assumed that there will be a linear reduction in GPCD from 2015-2020 to achieve the district-specific 2020 SBx7-7 compliance target. The district may ultimately elect to achieve 2020 SBx7-7 compliance through a regional alliance. GPCD will remain flat from 2020 through 2040.